

# ANNUAL REPORT

For 1927

## PUBLIC WORKS DEPARTMENT



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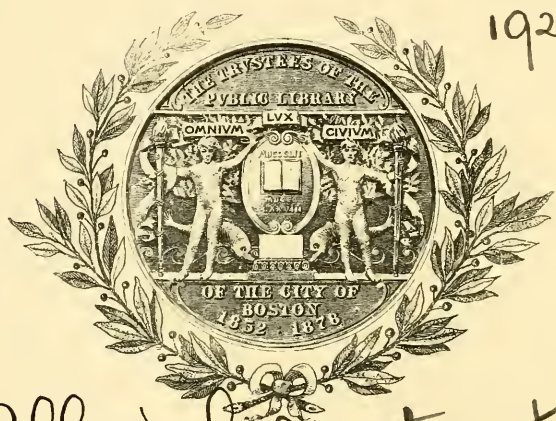
CITY OF BOSTON

1927

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1927



Public Works Department







ANNUAL REPORT

OF THE

PUBLIC WORKS DEPARTMENT

FOR THE

YEAR 1927



CITY OF BOSTON  
PRINTING DEPARTMENT  
1928

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Public Works Department

March 1909

1907 78

1907 78

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ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT  
FOR THE  
YEAR ENDING DECEMBER 31, 1927.

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BOSTON, January 1, 1928.

HON. MALCOLM E. NICHOLS,  
*Mayor of Boston.*

DEAR SIR,— In compliance with the Revised Ordinances, the annual report of the operations and expenses of the Public Works Department for the year ending December 31, 1927, is respectfully submitted. The Public Works Department, created by Ordinances 1910, chapter 9, now chapter 27 of the Revised Ordinances of 1925, was formed by consolidating the Engineering, Water and Street Departments.

ORGANIZATION.

The department is composed of six main divisions, viz.:

*Central Office.*— The Central Office is composed of the accounting force of the entire department under the charge of the secretary and chief clerk.

*Bridge and Ferry Division.*— This division, under a division engineer, has the charge and care of all bridges used as highways which are in whole, or in part, under

the control of the city; the care and management of the ferries owned by the city, including boats, slips, drops and buildings.

NOTE.—The Boston and Cambridge Division, so called, is not, strictly speaking, a division of the Public Works Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provisions of chapter 412 of the Acts of 1904; but because of the fact that the present Commissioner of Public Works is the Boston member of this commission and also because one half of the expense of this commission is defrayed by the Bridge Service, it is in this report treated as a division of this department.

*Highway Division.*—This division, under a division engineer, has the care of the construction, reconstruction and maintenance of roadways and sidewalks, and the care of lamps and the lighting of streets, parks and alleys.

*Sanitary Division.*—This division, under a division engineer, has charge of the collection and removal of ashes, garbage and refuse, street cleaning and the oiling and flushing of streets.

*Sewer Division.*—This division, under a division engineer, has charge of the construction of sewers, catch-basins and waterways.

*Water Division.*—This division, under a division engineer, has the care of water pipes, installation of meters, water service, laying and relaying of water mains and the high pressure fire service.

#### GENERAL.

The more important works undertaken during the past year in the Bridge Service were the rebuilding of West Newton Street Bridge over the New York, New Haven & Hartford Railroad, and the reconstruction of the spans of Broadway Bridge over the main lines of the New York, New Haven & Hartford Railroad. These two bridges were built of steel, encased in concrete, and are of a permanent type. The traffic at Broadway Bridge is also aided greatly by the elimination of the center girder.

In the Ferry Service a new electrically operated ferry bridge, with its foundations, was constructed at the North Ferry, East Boston. This new ferry bridge, like the other electrically operated ferry bridges, has a road-

way wide enough to provide for two lines of vehicles and also is strong enough to carry heavy trucking.

As noted in the reports for some years past, Congress Street Bridge is in very bad condition and should be rebuilt at once. Chapter 157 of the Acts of 1926 authorized borrowing \$800,000 outside the debt limit for this work, and the act has been accepted by the city.

The pile approaches to the draw span of Chelsea Bridge over the north channel of Mystic river are steadily deteriorating and should be rebuilt, preferably with steel superstructure on masonry piers. The work would cost approximately \$1,500,000.

An appropriation has been made for the reconstruction of Columbus Avenue Bridge over the Boston & Albany Railroad tracks, the rebuilding of which should be completed in the summer of 1928.

In connection with the widening of Morton, Ashland and River streets the bridges on these streets should be rebuilt.

In the Ferry Service two new boats should be provided in place of the old wooden vessels which are unfit for the heavy motor traffic. The two old wooden ferry bridges should also be replaced by modern electrically operated steel bridges.

The engineering force has done some work in the way of supervising construction for other services and in giving engineering advice to other departments.

*Water Division.*—The continued development of areas in Dorchester, West Roxbury and Brighton has resulted in applications for 2,000 service connections which have been installed, and in the same areas about ten miles of 8-inch, 12-inch and 16-inch water mains have been laid.

The metering of service connections is practically completed. There remain now about 1,000 house service connections, existing previous to 1907, to meter. On the completion of this number, all water used will be paid for under meter rates.

The tunnel under the Boston & Albany Railroad and the Providence Division Railroad at Arlington square is completed, and there remains the laying of the 48-inch main in the tunnel and the connection with the 30-inch main in Tremont street at Arlington square.

A total of approximately ten miles of water mains have been laid, ranging in size from 8-inch to 48-inch diameter.

The General Pipe Cleaning Company of Philadelphia cleaned 80,993 linear feet of 8-inch and 12-inch water pipes in West Roxbury, resulting in an improvement to the system both for domestic and fire protection uses.

The improvement of water pressure conditions in the higher sections of Roxbury and Dorchester is of special importance and has awaited the action of the Metropolitan District Commission toward laying a 48-inch main to the Boston line. When the Metropolitan Commission completes its work, the city will continue it to connect with the 36-inch high service main in Geneva avenue at Columbia road.

*Sewer Division.*—The extensive building operations throughout the outlying sections have made demands on the Sewer Division that have taxed its activities to the extreme.

The laying out of new streets by the Board of Street Commissioners and innumerable petitions for sanitary sewers and surface drains created an enormous amount of work in the preparation of plans, specifications, etc. As a result 18 miles of sewers and 577 catch-basins were constructed. All sections of the city received attention as far as possible. A number of petitions, however, will have to await further appropriation.

A section of Stony brook has been completed, between Tollgate way and Bradeen street, and a contract has been awarded for the construction of the Porter street outlet in East Boston. The pumping station is under consideration, the pumping units receiving special attention to determine the advisability of installing two electrically operated pumps for the present steam pumps.

*Sanitary Division.*—Important additions to the equipment of the Sanitary Division have been made by the purchase of several Springfield pick-up sweepers, tractors, etc.

During the early winter the snow storms were handled with speed, the streets being opened and the snow removed with the least inconvenience to the merchants and citizens.

Six city pressure flushers and six contract flushers were employed flushing the streets,—a very satisfactory and efficient method of street cleaning. Formerly their activities were restricted to the down-town streets, but during the past year, the outlying districts have been given the benefit of the flushers.

The disposal of ashes and garbage is always a subject for debate, but as the Coleman Disposal Company's contract has four years to run, the discussion relates to the contract districts. The garbage disposal in the outside districts is not as serious as the ash and rubbish disposal. Dumping areas are becoming scarce, so much so that in a few years transportation outside the city limits will be required for this waste. This waste is increasing annually; the opportunity for disposal within the city limits is becoming less, consequently a new method will have to be considered.

*Highway Division.*—Forty-one streets were laid out by the Board of Street Commissioners, under chapter 393 of the Acts of 1906, and under the authority of special acts the following streets were completed:

Dock square.  
Kneeland street.

The appropriation for the repair and reconstruction of streets provided for the reconstruction of the following streets:

*East Boston.*

Lexington street, Meridian street to Shelby street.

*Charlestown.*

Alford street, Main street to Malden Bridge.  
Medford street, Chelsea street to Main street.

*City Proper.*

Washington street, Dover street to Massachusetts avenue.

Brattle street and Cornhill.

Washington street, from near Brattle street to near Cornhill.

Boylston street, Berkeley street to Exeter street.

Columbus avenue, Dartmouth street to Northampton street.

Dundee street, Massachusetts avenue to Dalton street.

Longwood avenue, Brookline avenue to the Riverway.

Stuart street, Huntington avenue to Dartmouth street.

West Brookline street, Warren avenue to Shawmut avenue.



Brookline avenue, Fenway to Brookline line.  
 Arlington street, Columbus avenue to Piedmont street.  
 Beacon street, Massachusetts avenue to Raleigh street.

Boylston street, Tremont street across Charles street.  
 Broadway, Park square across Stuart street.  
 Church street, Columbus avenue to Stuart street.  
 Park square, Boylston street to Columbus avenue.  
 Stuart street, Broadway to Columbus avenue.  
 East Brookline street, Washington street to Albany street.

James street.

*South Boston.*

A street, Congress street to Dorchester avenue.  
 East Broadway, L street to Farragut road.  
 Ralston street, Dorchester avenue to Boston street.

*Roxbury.*

Dudley street, Harrison avenue to Blue Hill avenue.  
 Harrison avenue, East Lenox street to Warren street,  
 and from Northampton street to East Lenox street.  
 Longwood avenue, Parker street across St. Alphonsus street.  
 Crawford street, Warren street to Walnut avenue.  
 Harold street, Walnut avenue to Seaver street.  
 Quincy street, Warren street to beyond Barry street.

*Dorchester.*

Freeport street.

*West Roxbury.*

Eliot street, Centre street to Pond street.

Under the appropriation allowed for granolithic sidewalks, large areas of sidewalks were laid in Brighton, Roxbury, Dorchester and West Roxbury.

In addition to the regular maintenance appropriations of the Highway Division, special appropriations, as follows, were made available during the year:

Granolithic sidewalks, \$50,000.

Reconstructing and repairing streets by contract,  
 \$250,000.

Street signs, \$25,000.

*Lighting Service.*—Six hundred and fifty-three lamps of various types were installed and 151 lamps discon-

tinued during the year. At the close of business December 31 there were in operation 6,093 arc lamps, 5,532 incandescent lamps, 9,878 single mantle gas lamps and 165 single mantle fire alarm gas lamps.

#### APPROPRIATIONS.

The money assigned for the maintenance work of the Public Works Department during the year 1927 was derived from the income of the city raised by taxation. In December, 1926, the department estimates were submitted to the Mayor, in segregated form, who made such allowance for each item in the budget as he considered necessary and submitted them to the City Council. The total maintenance appropriations as passed by the City Council and approved by the Mayor are shown below. On another page will be found the total expenditures by each service for each item in the segregated budget:

|                  |   |   |   |   |   |   |   |                       |
|------------------|---|---|---|---|---|---|---|-----------------------|
| Central Office   | . | . | . | . | . | . | . | \$88,097 55           |
| Bridge Service   | . | . | . | . | . | . | . | 474,651 81            |
| Ferry Service    | . | . | . | . | . | . | . | 547,038 06            |
| Lighting Service | . | . | . | . | . | . | . | 974,597 54            |
| Paving Service   | . | . | . | . | . | . | . | 1,860,678 74          |
| Sanitary Service | . | . | . | . | . | . | . | 3,197,491 43          |
| Sewer Service    | . | . | . | . | . | . | . | 698,720 43            |
| Water Service.   | . | . | . | . | . | . | . | 1,547,778 84          |
| Total            | . | . | . | . | . | . | . | <u>\$9,389,054 40</u> |

Yours respectfully,

JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1927,**

| GROUP AND ITEM.                               | Central.    | Bridge.      | Ferry.       |
|---|-------------|--------------|--------------|
| <b>A. PERSONAL SERVICE AS PER SCHEDULE A:</b> |             |              |              |
| 1. Permanent employees.....                   | \$81,310 59 | \$343,257 25 | \$244,983 59 |
| 2. Temporary employees.....                   |             | 17,230 20    | 21,564 65    |
| 3. Unassigned.....                            |             | 8,086 66     | 8,130 34     |
| <b>B. SERVICE OTHER THAN PERSONAL:</b>        |             |              |              |
| 1. Printing and binding.....                  |             |              | 210 50       |
| 3. Advertising and posting.....               |             | 22 95        | 87 48        |
| 4. Transportation of persons.....             |             | 577 88       | 127 26       |
| 5. Cartage and freight.....                   |             | 4 54         | 282 42       |
| 6. Hire of teams and auto trucks.....         |             |              | 2,746 00     |
| 8. Light, heat and power.....                 |             | 9,871 45     | 8,832 29     |
| 10. Rent, taxes and water.....                |             | 336 85       | 131 00       |
| 12. Bond and insurance premiums.....          | 5 00        |              | 91 00        |
| 13. Communication.....                        | 37 00       | 311 58       | 269 30       |
| 14. Motor vehicle repairs and care.....       | 224 66      | 1,575 52     |              |
| 15. Motorless vehicle repairs.....            |             |              | 134 65       |
| 16. Care of animals.....                      |             |              |              |
| 18. Cleaning.....                             |             | 14 80        | 36 00        |
| 19. Removal of ashes, dirt and garbage.....   |             |              |              |
| 20. Disposal of ashes, dirt and garbage.....  |             |              |              |
| 21. Removal of snow.....                      |             |              |              |
| 28. Expert.....                               | 75 00       |              |              |
| 35. Fees, service of venires, etc.....        | 15 00       | 81 00        | 112 00       |
| 37. Photographic and blueprinting.....        | 192 50      | 1 20         |              |
| 39. General plant.....                        | 119 02      | 34,431 00    | 68,283 68    |
| 42. Repairing streets, etc.....               |             |              |              |
| <b>C. EQUIPMENT:</b>                          |             |              |              |
| 2. Machinery.....                             |             |              |              |
| 3. Electrical.....                            |             |              |              |
| 4. Motor vehicles.....                        | 2,626 80    | 6,603 40     |              |
| 5. Motorless vehicles.....                    |             |              |              |
| 6. Stable.....                                |             |              |              |
| 7. Furniture and fittings.....                |             | 47 86        | 69 08        |
| 9. Office.....                                | 98 00       | 87 08        |              |



Several Services by Items of the Segregated Budget.  
to December 31, 1927.

| Lighting.  | Paving.        | Sanitary.      | Sewer.       | Water.       | Totals.        |
|------------|----------------|----------------|--------------|--------------|----------------|
| \$5,812 75 | \$1,052,429 37 | \$1,729,951 26 | \$396,161 34 | \$901,450 18 | \$4,855,356 33 |
| .....      | 56,272 48      | 74,785 48      | 10,138 00    | 1,729 30     | 181,720 11     |
| .....      | 62,857 84      | 146,748 32     | 19,972 90    | 32,112 82    | 277,908 88     |
| .....      | .....          | 440 00         | 109 30       | 99 75        | 859 55         |
| .....      | 56 85          | 60 00          | 9 50         | 55 50        | 292 28         |
| 25 00      | 1,233 86       | 110 20         | 1,605 56     | 8,385 12     | 12,064 78      |
| .....      | 21 44          | 58 46          | 23 06        | 29 38        | 419 30         |
| .....      | 54,256 48      | 94,174 40      | 511 11       | 25 00        | 151,712 99     |
| 937,822 54 | 2,114 47       | 4,872 19       | 48,780 02    | 5,178 73     | 1,017,471 69   |
| .....      | 2,775 00       | 2,130 00       | 1,240 32     | 722 41       | 7,335 58       |
| .....      | 12 00          | 3 00           | .....        | 50 00        | 161 00         |
| .....      | 2,065 99       | 1,607 14       | 801 66       | 2,094 81     | 7,187 48       |
| 51 84      | 25,832 84      | 37,896 20      | 6,192 60     | 17,292 11    | 89,065 77      |
| .....      | 962 35         | 21,442 03      | 179 80       | 13 25        | 22,732 08      |
| .....      | 4,264 30       | 6,189 00       | 178 00       | 519 62       | 11,150 92      |
| .....      | 178 20         | 307 41         | 53,592 69    | 67 65        | 54,196 75      |
| .....      | .....          | 410,823 36     | .....        | .....        | 410,823 36     |
| .....      | 75 95          | 356,697 30     | 268 25       | 123 25       | 357,164 75     |
| .....      | 217,078 64     | .....          | .....        | .....        | 217,078 64     |
| .....      | 120 00         | .....          | 91 00        | 1,576 90     | 1,862 90       |
| 10 00      | 964 00         | 947 00         | 328 30       | 1,354 00     | 3,811 30       |
| .....      | .....          | .....          | .....        | 72 50        | 266 20         |
| 4,973 29   | 11,380 37      | 36,734 17      | 30,025 74    | 43,645 01    | 229,592 28     |
| .....      | 13,615 63      | .....          | 2,391 74     | 67,249 12    | 83,256 49      |
| .....      | 6,950 00       | .....          | .....        | .....        | 6,950 00       |
| .....      | .....          | .....          | .....        | 467 61       | 467 61         |
| 770 11     | 22,906 55      | 19,587 26      | 34,691 52    | 21,982 01    | 109,167 65     |
| .....      | .....          | 2,339 83       | .....        | .....        | 2,339 83       |
| .....      | 120 60         | 1,010 07       | 96 42        | 28 44        | 1,255 53       |
| .....      | 30 00          | 42 00          | .....        | 11 75        | 200 69         |
| .....      | .....          | 77 22          | .....        | 430 04       | 692 34         |

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1927,**

| GROUP AND ITEM.                       | Central.           | Bridge.             | Ferry.              |
|---------------------------------------|--------------------|---------------------|---------------------|
| <b>C. EQUIPMENT:</b>                  |                    |                     |                     |
| 11. Marine .....                      |                    |                     | \$736 08            |
| 13. Tools and instruments .....       |                    | \$2,105. 52         | 2,331 14            |
| 14. Live stock.....                   |                    |                     |                     |
| 16. Wearing apparel.....              |                    | 60 91               | 216 73              |
| 17. General plant.....                |                    | 783 13              | 414 28              |
| <b>D. SUPPLIES:</b>                   |                    |                     |                     |
| 1. Office.....                        | \$3,249 98         | 1,129 48            | 1,228 84            |
| 2. Food and ice.....                  |                    | 83 24               | 73 80               |
| 3. Fuel.....                          |                    | 3,363 04            | 68,248 42           |
| 4. Forage and animal .....            |                    |                     |                     |
| 5. Medical, surgical, laboratory..... |                    |                     |                     |
| 8. Laundry, cleaning, toilet.....     | 1 70               | 235 74              | 314 21              |
| 11. Motor vehicle.....                | 258 81             | 1,294 91            |                     |
| 13. Chemicals and disinfectants ..... |                    | 8 12                | 193 76              |
| 16. General plant.....                |                    | 1,014 14            | 3,417 59            |
| <b>E. MATERIALS:</b>                  |                    |                     |                     |
| 1. Building .....                     |                    | 120 06              | 824 55              |
| 2. Highway.....                       |                    |                     |                     |
| 3. Bridges .....                      |                    | 30,837 79           |                     |
| 4. Ferries.....                       |                    |                     | 9,695 27            |
| 5. Sewer.....                         |                    |                     |                     |
| 6. Water .....                        |                    |                     |                     |
| 9. Machinery .....                    |                    | 387 10              |                     |
| 10. Electrical .....                  |                    | 952 94              | 1,211 65            |
| 13. General plant.....                |                    | 20 57               |                     |
| <b>F. SPECIAL ITEMS:</b>              |                    |                     |                     |
| 2. Damages.....                       |                    |                     |                     |
| 7. Pensions and annuities.....        |                    | 4,260 76            | 6,103 53            |
| 11. Workingmen's compensation.....    |                    | 214 28              | 1,227 72            |
| <b>Total.....</b>                     | <b>\$88,214 06</b> | <b>\$469,412 95</b> | <b>\$552,328 81</b> |

Several Services by Items of the Segregated Budget.— Concluded.  
to December 31, 1927.

| Lighting.    | Paving.        | Sanitary.      | Sewer.       | Water.         | Totals.        |
|--------------|----------------|----------------|--------------|----------------|----------------|
|              |                |                |              |                | \$736 08       |
|              | \$17,560 93    | \$11,139 46    | \$2,335 95   | \$55,034 37    | 90,507 37      |
|              |                | 3,500 00       |              |                | 3,500 00       |
|              | 4 60           | 95 65          | 983 70       | 264 10         | 1,625 69       |
| \$3,878 00   | 673 64         | 1,657 03       | 3,316 29     | 288 40         | 11,010 77      |
| 186 42       | 5,545 77       | 4,157 20       | 1,927 71     | 9,614 61       | 27,040 01      |
|              | 227 92         | 157 25         | 60 75        | 59 78          | 662 74         |
|              | 13,201 30      | 3,379 70       | 50,652 11    | 1,774 98       | 140,619 55     |
|              | 12,152 59      | 69,159 01      | 964 76       | 2,654 99       | 84,931 35      |
|              |                |                | 11 17        |                | 11 17          |
|              | 116 26         | 41 31          | 208 91       | 173 08         | 1,091 21       |
| 112 87       | 16,785 67      | 46,239 93      | 3,474 53     | 7,466 37       | 75,633 09      |
|              | 275 00         | 176 47         | 118 14       | 116 71         | 888 20         |
|              | 4,801 97       | 962 06         | 2,244 14     | 6,521 69       | 18,961 59      |
|              | 2,605 37       | 39 68          | 1,878 13     | 79 24          | 5,547 03       |
|              | 205,889 44     | 28,091 27      |              |                | 233,980 71     |
|              |                |                |              |                | 30,837 79      |
|              |                |                |              |                | 9,695 27       |
|              |                |                | 10,168 37    |                | 10,168 37      |
|              |                |                |              | 246,943 28     | 246,943 28     |
|              |                |                |              |                | 387 10         |
|              | 122 17         | 193 72         | 438 14       | 958 06         | 3,876 68       |
|              | 20,590 76      | 53,216 12      | 6,187 81     | 3,005 05       | 83,020 31      |
|              |                |                |              | 21,542 60      | 21,542 60      |
|              | 17,177 92      | 15,879 65      | 4,531 02     | 15,277 61      | 63,230 49      |
|              | 3,907 28       | 15,409 71      | 2,818 43     | 4,477 05       | 28,054 47      |
| \$953,642 82 | \$1,860,155 10 | \$3,202,528 52 | \$699,708 79 | \$1,483,018 23 | \$9,309,009 28 |

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1927,**

| GROUP AND ITEM.   | Central.   | Bridge.    | Ferry.     |
|---|------------|------------|------------|
| Commissioner.....   | \$9,000 00 |            |            |
| Division engineers.....   |            | \$3,750 00 | \$1,250 00 |
| Engineers in charge.....  |            |            |            |
| Clerks and stenographers.....                                   | 59,075 05  | 3,703 47   | 1,500 00   |
| Address printers.....   |            |            |            |
| Blueprinters.....   | 3,335 87   |            |            |
| Chauffeurs.....   | 1,699 67   | 6,442 00   | 385 00     |
| Cement testers.....   | 5,200 00   |            |            |
| Chief inspectors.....   |            |            |            |
| Chemist and assistant.....                                      |            |            |            |
| Cashiers.....   |            |            | 2,157 94   |
| Constables.....   |            |            |            |
| Captains.....   |            |            | 29,874 73  |
| Deckhands.....  |            |            | 41,503 13  |
| Drawtenders.....  |            | 231,181 77 |            |
| Draughtsman.....  |            | 8,016 51   |            |
| Engineers, assistants, civil.....                               |            | 17,540 46  | 29,218 50  |
| Engineers (steam).....  |            |            |            |
| Electricians.....   |            | 1,982 10   | 1,852 10   |
| Emergency men.....  |            |            |            |
| Foremen, general.....   |            |            | 3,258 15   |
| Foremen.....  |            | 2,258 05   |            |
| Subforemen.....   |            | 5,593 02   |            |
| Gatemen (ferry).....  |            |            | 25,890 70  |
| Instrument men.....   |            | 5,043 91   |            |
| Rodmen.....   |            | 655 41     |            |
| Inspectors.....   |            | 4,192 30   |            |
| Inspector, property.....  | 3,000 00   |            |            |
| Laborers, janitors, teamsters, watchman, stablemen,<br>etc..... |            | 19,262 17  | 30,699 94  |
| Mechanics.....  |            | 30,177 75  | 40,055 62  |
| Meter readers.....  |            |            |            |
| Medical inspectors.....   |            | 200 00     | 100 00     |
| Oilers and firemen.....   |            |            | 89,626 76  |
| Quartermasters.....   |            |            | 23,584 63  |
| Sewer gatemen, cleaners, etc.....                               |            |            |            |

Several Services by Items of the Segregated Budget.  
to December 31, 1927.

| Lighting.  | Paving.    | Sanitary.    | Sewer.     | Water.     | Totals.      |
|------------|------------|--------------|------------|------------|--------------|
|            |            |              |            |            | \$9,000 00   |
| \$1,250 00 | \$3,750 00 | \$5,000 00   | \$5,000 00 | \$5,000 00 | 25,000 00    |
|            | 800 00     |              |            | 3,675 00   | 4,475 00     |
| 2,704 42   | 33,952 44  | 5,213 31     | 7,371 23   | 90,079 60  | 203,599 52   |
|            |            |              |            | 1,300 00   | 1,300 00     |
|            |            |              |            |            | 3,335 87     |
|            | 17,495 72  | 125,003 23   | 11,391 00  | 22,801 29  | 185,217 91   |
|            |            |              |            |            | 5,200 00     |
|            | 1,072 26   |              |            |            | 1,072 26     |
|            | 1,100 00   |              |            |            | 1,100 00     |
|            |            |              |            | 2,216 67   | 4,374 61     |
|            | 2,239 15   |              |            |            | 2,239 15     |
|            |            |              |            |            | 29,874 73    |
|            |            |              |            |            | 41,503 13    |
|            |            |              |            |            | 231,181 77   |
|            | 2,103 12   |              | 5,729 51   | 4,200 00   | 20,049 14    |
|            | 9,626 18   | 1,568 19     | 10,957 50  | 10,490 64  | 79,401 56    |
|            | 18,656 25  |              | 12,840 32  | 1,721 50   | 33,218 07    |
|            |            |              | 3,964 20   |            | 7,798 40     |
|            |            |              |            | 32,091 66  | 32,091 66    |
|            | 3,000 00   |              | 7,030 60   |            | 13,288 75    |
|            | 22,958 57  | 48,525 36    |            | 27,464 48  | 101,206 46   |
|            | 35,222 05  |              |            | 1,900 00   | 42,715 07    |
|            |            |              |            |            | 25,890 70    |
|            | 8,158 54   |              | 16,304 64  | 9,780 84   | 39,287 93    |
|            | 1,337 30   |              | 7 67       |            | 2,000 38     |
| 1,858 33   | 45,571 39  | 143,646 24   | 40,545 88  | 52,412 39  | 288,226 53   |
|            |            |              |            |            | 3,000 00     |
|            | 622,775 07 | 1,300,109 67 | 133,351 11 | 247,834 80 | 2,354,032 76 |
|            | 200,476 44 | 75,845 58    | 40,037 99  | 312,384 93 | 698,978 31   |
|            |            |              |            | 56,976 72  | 56,976 72    |
|            | 400 00     | 2,200 00     | 100 00     | 600 00     | 3,600 00     |
|            | 7,977 00   |              | 62,185 00  | 1,716 00   | 161,504 76   |
|            |            |              |            |            | 23,584 63    |
|            |            |              | 32,634 38  |            | 32,634 38    |

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1927,**

| GROUP AND ITEM.                 | Central.    | Bridge.      | Ferry.       |
|---------------------------------|-------------|--------------|--------------|
| Supervisors .....               |             | \$3,258 33   |              |
| Supervisor, deputy .....        |             |              |              |
| Storekeepers .....              |             |              | \$1,657 89   |
| Superintendent and deputy ..... |             |              |              |
| Telephone operators .....       |             |              |              |
| Tollmen .....                   |             |              | 22,368 50    |
| Veterinarian .....              |             |              |              |
| Wharfingers .....               |             |              |              |
| Weighers .....                  |             |              |              |
| Yardmasters .....               |             |              |              |
| Yardmen .....                   |             |              |              |
| Permanent (Totals) .....        | \$81,310 59 | \$343,257 25 | \$344,983 59 |
| Temporary .....                 |             | 17,230 20    | 21,564 65    |
| Unassigned .....                |             | 8,086 66     | 8,130 34     |
| Totals .....                    | \$81,310 59 | \$368,574 11 | \$374,678 58 |

Several Services by Items of the Segregated Budget.— Concluded.  
to December 31, 1927.

| Lighting.  | Paving.        | Sanitary.      | Sewer.       | Water.       | Totals.        |
|------------|----------------|----------------|--------------|--------------|----------------|
| .....      | \$2,700 00     | \$4,000 00     | .....        | \$2,058 04   | \$12,016 37    |
| .....      | .....          | 3,500 00       | .....        | .....        | 3,500 00       |
| .....      | .....          | 1,657 89       | .....        | 1,900 00     | 5,215 78       |
| .....      | 2,500 00       | .....          | \$3,415 90   | 6,358 33     | 12,274 23      |
| .....      | .....          | 1,400 00       | .....        | 1,304 17     | 2,704 17       |
| .....      | .....          | .....          | .....        | .....        | 22,368 50      |
| .....      | 500 00         | 2,250 00       | 125 00       | 125 00       | 3,000 00       |
| .....      | .....          | 3,516 01       | .....        | .....        | 3,516 01       |
| .....      | 1,657 89       | 1,657 89       | .....        | .....        | 3,315 78       |
| .....      | .....          | 1,657 89       | .....        | 1,858 12     | 3,516 01       |
| .....      | 6,400 00       | 3,200 00       | 3,169 32     | 3,200 00     | 15,969 32      |
| \$5,812 75 | \$1,052,429 37 | \$1,729,951 26 | \$396,161 34 | \$901,450 18 | \$4,855,356 33 |
| .....      | 56,272 48      | 74,785 48      | 10,138 00    | 1,729 30     | 181,720 11     |
| .....      | 62,857 84      | 146,748 32     | 19,972 90    | 32,112 82    | 277,908 88     |
| \$5,812 75 | \$1,171,559 69 | \$1,951,485 06 | \$426,272 24 | \$935,292 30 | \$5,314,985 32 |

The expenditures under the several appropriations for the different services for the year 1927 were as follows:

| DIVISIONS AND SERVICES. | Current Expenses. | Special Appropriations. | Total Expenditures. | Balance December 31, 1927. |
|-------------------------|-------------------|-------------------------|---------------------|----------------------------|
| Central Office.....     | \$88,214 06       | .....                   | \$88,214 06         | .....                      |
| Bridge Service.....     | 469,412 95        | \$236,667 76            | 706,080 71          | <sup>1</sup> \$214,012 78  |
| Ferry Service.....      | 552,328 81        | 154,084 85              | 706,413 66          | <sup>2</sup> 238,959 16    |
| Lighting Service.....   | 953,642 82        | .....                   | 953,642 82          | .....                      |
| Paving Service.....     | 1,860,155 10      | 1,836,700 79            | 3,696,855 89        | 152,195 46                 |
| Sanitary Service.....   | 3,202,528 52      | 42,330 00               | 3,244,858 52        | 2,464 84                   |
| Sewer Service.....      | 699,708 79        | 973,960 36              | 1,673,669 15        | <sup>3</sup> 1,080,670 28  |
| Water Service.....      | 1,483,018 23      | 369,855 96              | 1,852,874 19        | 189,273 09                 |
| Totals.....             | \$9,309,009 28    | \$3,613,599 72          | \$12,922,609 00     | \$1,877,575 61             |

<sup>1</sup> Authorized, but not issued, \$85,000.

<sup>2</sup> Authorized, but not issued, \$50,000.

<sup>3</sup> Authorized, but not issued, \$750,000.



## Cost of Maintenance of the Public Works Department Since 1918.

| DIVISION AND SERVICES.                 | 1919-20.       | 1920-21.       | 1921-22.       | Special<br>Account<br>1921-22. | 1922-23.       | 1923-24.       | 1924-25.       | 1925.<br>(11 months.) | 1926.          | 1927.          |
|--|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|-----------------------|----------------|----------------|
| Central Office.....                    | \$79,009 15    | \$91,373 98    | \$88,308 02    | \$3,072 64                     | \$100,457 23   | \$84,717 60    | \$86,511 11    | \$81,432 27           | \$89,009 05    | \$88,214 06    |
| Bridge Service.....                    | 363,130 05     | 410,216 53     | 392,589 05     | 15,805 42                      | 382,413 98     | 387,220 23     | 426,330 81     | 396,596 57            | 445,564 07     | 452,916 60     |
| Boston and Cambridge Bridges.          | 26,390 52      | 26,783 42      | 27,999 77      | 2,433 95                       | 27,669 10      | 30,832 74      | 31,740 49      | 19,309 12             | 18,983 08      | 16,496 35      |
| Ferry Service.....                     | 436,687 75     | 574,754 54     | 496,836 35     | 21,483 31                      | 497,091 70     | 498,684 78     | 523,527 46     | 472,240 69            | 516,316 65     | 552,328 81     |
| Lighting Service.....                  | 714,821 55     | 722,134 24     | 722,091 55     | 134,127 03                     | 734,059 09     | 747,191 63     | 830,736 90     | 820,768 34            | 927,329 94     | 953,642 82     |
| Paving Service.....                    | 1,063,059 16   | 1,023,332 59   | 1,110,496 07   | 34,869 08                      | 925,828 45     | 1,140,959 74   | 1,208,503 43   | 1,240,788 13          | 2,252,030 79   | 1,396,279 48   |
| Removal of Snow.....                   | 78,802 12      | 663,111 55     | 215,389 21     | 6,611 10                       | 416,720 51     | 364,713 64     | 349,375 57     | 75,494 95             | 1,234,123 87   | 786,521 98     |
| Sanitary Service.....                  | *1,265,581 65  | 1,508,102 71   | †1,629,078 98  | 105,288 95                     | 1,831,685 38   | 1,895,984 45   | †2,073,913 32  | 1,877,228 67          | 2,050,603 65   | 2,089,907 75   |
| Sewer Service.....                     | 472,713 49     | 616,461 55     | 607,043 15     | 25,419 60                      | 567,758 00     | 605,796 63     | 635,928 74     | 592,155 15            | 688,876 44     | 699,708 79     |
| Street Cleaning Service.....           | 607,992 26     | 700,031 01     | 640,179 28     | 23,637 66                      | 627,203 22     | 607,583 55     | 592,645 85     | 719,296 18            | 696,834 10     | 740,599 35     |
| Street Watering and Oiling<br>Service. | 118,014 00     | 186,763 20     | 145,454 29     | 491 24                         | 122,865 88     | 108,842 33     | 79,476 90      | 53,420 88             | 51,458 88      | 49,375 06      |
| Water Service.....                     | 1,010,634 32   | 1,253,166 33   | 1,232,418 76   | 41,656 57                      | 1,354,555 93   | 1,229,573 73   | 1,608,320 10   | 1,309,163 72          | 1,511,407 58   | 1,483,018 23   |
| Totals.....                            | \$6,237,742 02 | \$7,776,231 65 | \$7,307,894 48 | \$414,896 05                   | \$7,588,317 47 | \$7,702,101 05 | \$8,447,000 68 | \$7,657,894 67        | \$9,382,538 10 | \$9,309,009 28 |

\* Includes \$71,000 paid by Street Cleaning and Oiling Service.

† Includes \$92,445.71 paid by Street Cleaning and Oiling Service.

‡ Includes \$142,724.96 paid by Street Cleaning and Oiling Service.

## REVENUES, 1927.

*On Account of the Public Works Department, as Per Auditor's Statement.*

## Bridge Service General Revenue:

|                               |          |             |
|-------------------------------|----------|-------------|
| Third Payment Chelsea Bridge  |          |             |
| South                         | \$25,000 | 00          |
| Chelsea Bridge North (Revere) | 1,595    | 44          |
| Labor and material            | 9,694    | 75          |
| Junk                          | 15       | 00          |
| Rent                          | 200      | 00          |
|                               | <hr/>    | \$36,505 19 |

## Chelsea Bridge South (Sinking Fund):

|                      |        |    |
|----------------------|--------|----|
| From City of Chelsea | 68,178 | 90 |
|----------------------|--------|----|

## Charlestown Bridge (Sinking Fund):

|       |       |    |
|-------|-------|----|
| Rents | 2,627 | 65 |
|-------|-------|----|

## Broadway Bridge, South Boston (Sinking Fund):

|                              |       |    |
|------------------------------|-------|----|
| From Boston Elevated Railway | 4,000 | 00 |
|------------------------------|-------|----|

## Ferry Service General Revenue:

|                      |          |           |
|----------------------|----------|-----------|
| Tolls                | \$73,308 | 13        |
| Headhouse privileges | 300      | 00        |
| Rents                | 589      | 50        |
| Cleaning             | 48       | 00        |
| Telephone            | 92       | 04        |
| Sale of pontoon      | 50       | 00        |
| Sale of ferryboats   | 14,835   | 70        |
| Free ferries July 4  | 1        | 00        |
| Junk                 | 18       | 00        |
|                      | <hr/>    | 89,242 37 |

## Lighting Service General Revenue:

|                  |         |          |
|------------------|---------|----------|
| Lighting bridges | \$1,462 | 37       |
| Damage to posts  | 718     | 00       |
| Sale of junk     | 8       | 87       |
|                  | <hr/>   | 2,189 24 |

## Paving Service General Revenue:

|                       |          |    |
|-----------------------|----------|----|
| Assessments           | \$26,841 | 29 |
| Permits               | 26,681   | 83 |
| Labor and material    | 2,630    | 33 |
| Inspectors            | 108      | 00 |
| Damage to auto        | 200      | 40 |
| Damage to signs       | 63       | 46 |
| Gasolene              | 8        | 05 |
| Constructing driveway | 109      | 26 |
| Use of roller         | 10       | 00 |
| Sale of roller        | 200      | 00 |
|                       | <hr/>    |    |

*Carried forward* . . . \$56,852 62 \$202,743 35

|  |                |              |
|--|----------------|--------------|
| <i>Brought forward</i> . . . . .                                       | \$56,852 62    | \$202,743 35 |
| Labor and material (chapter 28,<br>Revised Ordinances, 1914) . . . . . | 3,135 50       |              |
| Rebate auto registration . . . . .                                     | 23 00          |              |
| Sale of material . . . . .   | 3,217 77       |              |
| Forfeiture on contract . . . . .                                       | 1,500 00       |              |
| Sale of horses . . . . .   | 10 00          |              |
| Artificial sidewalks . . . . .   | 261 80         |              |
| Rent of sign . . . . .   | 90 00          |              |
| Penalty, oil and coal . . . . .  | 43 80          |              |
| Rents . . . . .  | 200 00         |              |
|  | <hr/>          | 65,334 49    |
| Reconstructing and Repairing<br>Streets by Contract:                   |                |              |
| Forfeiture on Contract (Appropriation) . . . . .                       |                | 600 00       |
| Sewer Service General Revenue:   |                |              |
| Entrance fees . . . . .  | \$10,662 48    |              |
| Labor and material . . . . .   | 1,108 85       |              |
| Disposal of sewage . . . . .   | 10,300 00      |              |
| Old material . . . . .   | 178 19         |              |
| Penalty on oil . . . . .   | 1,813 56       |              |
| Penalty on coal . . . . .  | 33             |              |
| Old sewer, West Roxbury . . . . .                                      | 72 85          |              |
| Rents . . . . .  | 260 00         |              |
|  | <hr/>          | 24,396 26    |
| Sanitary Service General Revenue:                                      |                |              |
| Collection of waste . . . . .  | \$95,182 95    |              |
| Sale of manure . . . . .   | 2,138 78       |              |
| Sale old material . . . . .  | 4 00           |              |
| Damage to wagon . . . . .  | 12 00          |              |
| Penalty on coal . . . . .  | 1 39           |              |
| Rents, Fort Hill Wharf . . . . .                                       | 525 75         |              |
|  | <hr/>          | 97,864 87    |
| Sewerage Works (Exclusive of<br>Assessments) Appropriation:            |                |              |
| Inspector's services . . . . .   | \$379 16       |              |
| Labor and materials . . . . .  | 649 18         |              |
|  | <hr/>          | 1,028 34     |
| Water Service General Revenue:   |                |              |
| Water rates . . . . .  | \$3,913,117 06 |              |
| Fees . . . . .   | 7,157 13       |              |
| Off and on . . . . .   | 2,734 00       |              |
| Labor and material . . . . .   | 3,086 14       |              |
| Sale of material . . . . .   | 7,755 85       |              |
| Meter tests . . . . .  | 288 75         |              |
| Service pipes . . . . .  | 106,981 97     |              |
| Interest . . . . .   | 2,321 65       |              |
| Fire pipes . . . . .   | 31,491 29      |              |
|  | <hr/>          |              |
| <i>Carried forward</i> . . . . .                                       | \$4,074,933 84 | \$391,967 31 |

|   |                |                              |
|---|----------------|------------------------------|
| <i>Brought forward</i> . . .                      | \$4,074,933 84 | \$391,967 31                 |
| Board of horse . . . .                            | 546 00         |                              |
| Damage to hydrants . . . .                        | 1,364 69       |                              |
| Carrying water . . . .                            | 139 49         |                              |
| Relocating pipes . . . .                          | 7 29           |                              |
| Pick holes . . . .                                | 287 18         |                              |
| Relocating hydrants . . . .                       | 1,735 66       |                              |
| Thawing pipes . . . .                             | 13 85          |                              |
| Penalty on coal . . . .                           | 20             |                              |
| Repair service pipes, gates, etc. .               | 69 69          |                              |
| Install fire pipes . . . .                        | 33 34          |                              |
| Rents . . . .                                     | 100 00         |                              |
| Accrued interest on loans ne-<br>gotiated . . . . | 447 22         |                              |
|   | <hr/>          | 4,079,678 45                 |
| Total . . . . .                                   |                | <u><u>\$4,471,645 76</u></u> |

## HIGHWAY DIVISION.

## Miscellaneous.

| CONTRACT.  | Awarded to                      | Dated.          | Progress of Work.            | Contract Estimated. | Amount Expended in 1927. |
|--|---------------------------------|-----------------|------------------------------|---------------------|--------------------------|
| <sup>3</sup> Dump stick on seawall, Dorchester avenue, from Congress street to Summer street, city proper.                                       | The Rendle Corporation.....     | Feb. 1, 1927.   | Completed Feb. 28, 1927....  | \$810 00            | \$928 72                 |
| <sup>3</sup> Removing portion of buildings, Nos. 1 to 9 Kneeland street, city proper.  | City Building Wrecking Company. | April 20, 1927. | Completed August 26, 1927..  | 1,495 00            | 1,495 00                 |
| <sup>2</sup> Resetting curbing and replacing artificial walks on Trinity place and Dartmouth street, city proper.                                | Henry F. Malley .....           | May 12, 1927.   | Completed June 4, 1927....   | 898 40              | 935 97                   |
| <sup>1</sup> Fence, filling and slope paving in Marginal street, East Boston.  | E. J. McHugh & Son .....        | June 21, 1927.  | Completed Sept. 21, 1927.... | 2,760 00            | 3,581 07                 |
| <sup>3</sup> Grading in Ashland street, from Wood avenue to Wilnot street, and Oakland street, from Orlando street to Hebron street, Dorchester. | William J. Barry .....          | July 26, 1927.  | Unfinished.....              | 15,750 00           | 14,853 75                |
| <sup>2</sup> Electrical installation at Highland Street Yard.....  | Stanton Electric Company....    | Sept. 20, 1927. | Completed Sept. 26, 1927.... | 2,090 00            | 1,776 50                 |
| <sup>1</sup> Grading in Morton street, from Druid street to Washington street, Dorchester.   | C. Capone.....                  | Nov. 21, 1927.. | Unfinished.....              | 9,500 00            | Nothing.                 |
| <sup>1</sup> Setting edgestones in Pilgrim road, from Brookline avenue to Short street, Roxbury.   | Maplewood Construction Company. | Nov. 30, 1927.  | Unfinished.....              | 1,359 60            | 500 00                   |
| <sup>2</sup> Resetting edgestones, paving, granolithic sidewalks, etc., in Cross street, city proper.  | C. M. Callahan, Inc .....       | June 14, 1927.  | Completed June 20, 1927....  | 500 00              | 500 00                   |
| Electrical work, City Yard, Charlestown .....  | Bunker Hill Electric Company,   | May 18, 1927.   | Completed May 18, 1927....   | 190 00              | 190 00                   |

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Unadvertised; only bidder.<sup>3</sup> Invitation bids; unadvertised; awarded to the lowest bidder.

## BRIDGE AND FERRY DIVISION (BRIDGE SERVICE).

## Bridge Work.

| CONTRACT.  | Awarded to                     | Dated.          | Progress of Work.            | Contract Estimated. | Amount Expended in 1927. |
|--|--------------------------------|-----------------|------------------------------|---------------------|--------------------------|
| <sup>1</sup> Rebuilding West Newton Street Bridge, over the New York, New Haven & Hartford Railroad, Boston.                           | A. G. Tomasello & Son, Inc.... | Jan. 21, 1927.  | Completed June 9, 1927....   | \$34,135 00         | \$34,850 96              |
| <sup>2</sup> Repairing running mechanism of draw span of Chelsea Bridge of North Channel of Mystic river.                              | Boston Bridge Works, Inc.....  | Feb. 23, 1927.  | Completed Feb. 23, 1927....  | 2,000 00            | 1,932 79                 |
| <sup>1</sup> Rebuilding spans 11 and 12 of Broadway Bridge, over the New York, New Haven & Hartford Railroad, Boston.                  | Boston Bridge Works, Inc.....  | Feb. 26, 1927.  | Completed Oct. 10, 1927....  | 69,628 00           | 68,574 20                |
| <sup>2</sup> Repairing counterweight link and pins; adjusting shear lock, etc., of Chelsea Bridge, over South Channel of Mystic river. | Boston Bridge Works, Inc.....  | March 11, 1927. | Completed March 14, 1927.    | 1,500 00            | 1,939 12                 |
| <sup>1</sup> Repairing draw fender pier, Chelsea Bridge North..  | The Rendle Corporation.....    | April 4, 1927.  | Completed June 14, 1927....  | 5,177 50            | 4,765 44                 |
| <sup>1</sup> Repairing Summer Street Bridge draw and fender piers.   | The Rendle Corporation.....    | May 25, 1927.   | Completed July 2, 1927....   | 3,100 00            | 3,906 02                 |
| <sup>1</sup> Pointing masonry piers of Charlestown Bridge.....   | M. M. Devine.....              | June 10, 1927.  | Completed Sept. 24, 1927.... | 7,349 50            | 9,000 83                 |
| <sup>1</sup> Repaving draw span of Chelsea Bridge North.....   | M. M. Devine.....              | June 24, 1927.  | Completed Aug. 20, 1927....  | 9,465 50            | 9,708 65                 |
| <sup>1</sup> Painting Northern Avenue Bridge.....  | M. M. Devine.....              | July 1, 1927.   | Completed Sept. 30, 1927.... | 7,300 00            | 7,300 00                 |
| <sup>1</sup> Repairing draw fender pier of Chelsea Bridge North,   | The Rendle Corporation.....    | Aug. 9, 1927.   | Completed Oct. 6, 1927....   | 8,105 60            | 10,984 01                |
| <sup>1</sup> Repairing draw fender pier of Northern Avenue Bridge.   | W. H. Ellis & Son Company..    | Aug. 11, 1927.  | Completed Sept. 20, 1927.... | 4,980 00            | 4,842 12                 |
| <sup>1</sup> Repairing Meridian Street Bridge.....   | The Rendle Corporation.....    | Sept. 13, 1927. | Completed Nov. 22, 1927...   | 8,912 00            | 8,679 28                 |
| <sup>1</sup> Repairing sidewalk and flooring of Dorchester Avenue Bridge, over Fort Point Channel.                                     | M. M. Devine.....              | Nov. 3, 1927.   | Unfinished.....              | 6,952 50            | 2,396 38                 |
| <sup>2</sup> Repairing turning mechanism of Northern Avenue Draw Bridge.   | Boston Bridge Works, Inc.....  | Dec. 15, 1927.  | Unfinished.....              | 3,000 00            | 2,939 21                 |

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Unadvertised; only bidder.

CONTRACTS MADE BY PUBLIC WORKS DEPARTMENT FROM JANUARY 1, 1927, TO DECEMBER 31, 1927.  
Hired Teams.

| District.                                    | Awarded to                                   | Dated.        | Doubles,<br>per<br>Day. | Singles,<br>per<br>Day. | Trucks,<br>per<br>Day. | Paving<br>Service. | Sanitary<br>Service. | Sewer<br>Service. | Street<br>Cleaning<br>and Oiling<br>Service. | Total.      |
|--|--|---------------|-------------------------|-------------------------|------------------------|--------------------|----------------------|-------------------|--|-------------|
| 1 No. 1, South Boston and Dorchester North,  | Edward J. Byrne.....                         | Jan. 21, 1927 | \$7 70                  | \$5 70                  | \$23 00                | \$10,110 25        | .....                | .....             | .....  | \$10,110 25 |
| 1 No. 2, East Boston and Breed's Island..... | E. J. McHugh & Son.....                      | Jan. 27, 1927 | 8 00                    | 5 00                    | 23 00                  | 2,111 00           | .....                | .....             | .....  | 2,111 00    |
| 1 No. 3, Charlestown.....                    | E. J. McHugh & Son.....                      | Jan. 27, 1927 | 8 00                    | 5 00                    | 23 00                  | 1,402 75           | \$292 00             | .....             | \$246 00                                     | 1,940 75    |
| 1 No. 4, Brighton.....                       | Bernard Malone.....                          | Jan. 27, 1927 | 8 00                    | 6 00                    | 23 00                  | 603 75             | .....                | .....             | .....  | 603 75      |
| 1 No. 5, West Roxbury.....                   | W. F. Cuddy.....                             | Jan. 27, 1927 | 5 00                    | 2 00                    | 23 00                  | 7,670 00           | .....                | .....             | .....  | 7,670 00    |
| 1 No. 6-9, Dorchester and Ashmont.....       | Charles Loonie.....                          | Jan. 27, 1927 | 5 50                    | 4 00                    | 23 00                  | 6,819 50           | .....                | \$299 00          | 3,565 00                                     | 10,683 50   |
| 1 No. 7, Roxbury South and Jamaica Plain,    | M. Doyle & Co.....                           | Jan. 27, 1927 | 4 48                    | 2 00                    | 23 00                  | 3,162 50           | .....                | .....             | .....  | 3,162 50    |
| 1 No. 8, South End and Roxbury North.....    | M. H. Loonie Construc-<br>tion Company, Inc. | Jan. 27, 1927 | 6 50                    | 5 75                    | 23 00                  | 17,113 02          | .....                | 90 11             | .....  | 17,203 13   |
| 2 No. 10, North and West Ends and Back Bay,  | B. E. Grant Company...                       | Jan. 21, 1927 | 7 25                    | 7 00                    | 23 00                  | 1,856 00           | 25,810 40            | .....             | .....  | 27,666 40   |
| 1 No. 11, Hyde Park.....                     | T. H. Corrigan & Sons...                     | Feb. 1, 1927  | 9 00                    | 6 00                    | 23 00                  | 235 13             | .....                | .....             | .....  | 235 13      |

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Advertised and awarded to the second bidder.



# SANITARY DIVISION (SANITARY SERVICE).

## Collecting and Removing Ashes, Store Dirt, House Dirt, Refuse and Garbage.

| District.                      | Awarded to                | Dated.        | Progress of Work.           | Bid Per Month. | Amount Expended in 1927. |
|--------------------------------|---------------------------|---------------|-----------------------------|----------------|--------------------------|
| <sup>1</sup> East Boston.....  | John J. Ward Company..... | Dec. 6, 1926. | Completed Dec. 31, 1927.... | \$4,228 78     | \$50,745 36              |
| <sup>1</sup> Brighton.....     | Joseph P. McCabe.....     | Dec. 6, 1926. | Completed Dec. 31, 1927.... | 6,290 00       | 75,480 00                |
| <sup>2</sup> West Roxbury..... | John J. Moore.....        | Dec. 6, 1926. | Completed Dec. 31, 1927.... | 3,991 50       | 47,898 00                |
| <sup>1</sup> Dorchester.....   | D. M. Biggs & Co.....     | Dec. 6, 1926. | Completed Dec. 31, 1927.... | 18,800 00      | 225,600 00               |
| <sup>1</sup> Hyde Park.....    | Thomas E. Bryan.....      | Dec. 6, 1926. | Completed Dec. 31, 1927.... | 925 00         | 11,100 00                |

<sup>1</sup> Advertised and awarded to the second bidder.

<sup>2</sup> Advertised and awarded to the third bidder.

## Contract in Force Made in Previous Years.

| CONTRACT.  | Awarded to                 | Dated.         | Progress of Work. | Bid Per Year. | Amount Expended in 1927. |
|--|----------------------------|----------------|-------------------|---------------|--------------------------|
| <sup>1</sup> Disposal of garbage and refuse for ten years, from July 1, 1922, to July, 1932. | Coleman Brothers, Inc..... | Dec. 31, 1921. | Unfinished.....   | \$345,000 00  | \$345,000 00             |

<sup>1</sup> Advertised and awarded to the lowest bidder.



## SANITARY DIVISION (SANITARY SERVICE).

## Miscellaneous.

| CONTRACT.   | Awarded to                 | Dated.         | Progress of Work.           | Estimated.<br>Cost. | Amount<br>Expended<br>in 1927. |
|---|----------------------------|----------------|-----------------------------|---------------------|--------------------------------|
| <sup>2</sup> Removing manure from the stables and yards in the various divisions of the department. | Joseph A. Kelley.....      | Dec. 17, 1927. | Completed Dec. 31, 1927.... | * \$7 25            |                                |
| <sup>4</sup> Furnishing combination motor street sprinkling and flushing trucks.                    | B. E. Grant Company.....   | June 7, 1927.  | Completed Oct. 31, 1927.... | † 34 00             | \$59,160 00                    |
| <sup>1</sup> Repairing garbage dump at Fort Hill Wharf.....   | Walsh & Co.....            | July 8, 1927.  | Completed Dec. 27, 1927.... | 10,611 00           | 9,944 87                       |
| <sup>1</sup> Repairing garbage dump at Albany Street Yard.....                                      | Walsh & Co.....            | Sept. 9, 1927. | Completed Oct. 10, 1927.... | 11,210 00           | 11,849 30                      |
| <sup>3</sup> Repairing roof, etc., of North Grove Street Yard....                                   | William Martin.....        | Aug. 24, 1927. | Completed Sept. 30, 1927..  | 850 00              | 850 00                         |
| <sup>3</sup> Disposal of ashes and refuse in the Charlestown district.                              | Coleman Disposal Company.. | Feb. 26, 1927. | Completed Dec. 31, 1927.... | † 900 00            | 9,000 00                       |

\* Per horse per year; paid to city.  
<sup>1</sup> Advertised and awarded to the lowest bidder.  
<sup>3</sup> Unadvertised; only bidder.

† Per day.  
<sup>2</sup> Advertised and awarded to the highest bidder.  
<sup>4</sup> Advertised and awarded to the only bidder.

# BRIDGE AND FERRY DIVISION (FERRY SERVICE). Ferry Work.

| CONTRACT.  | Awarded to                                   | Dated.          | Progress of Work.            | Contract Estimated. | Amount Expended in 1927. |
|--|--|-----------------|------------------------------|---------------------|--------------------------|
| 1 Teaming coal to ferriesboats.....  | E. J. McHugh & Son.....                      | Dec. 31, 1926.  | Completed July 31, 1927....  | * \$9 75            | \$1,755 00               |
| 1 Repairing hull, etc., of ferryboat "Noddle Island" ..  | The Atlantic Works.....                      | Jan. 7, 1927.   | Completed March 9, 1927....  | 8,237 00            | 11,273 76                |
| 1 Repairing hull, etc., of ferryboat "Lieutenant Flaherty."  | R. T. Green Company.....                     | Jan. 27, 1927.  | Completed March 10, 1927.... | 6,920 00            | 4,562 63                 |
| 1 Electrically operated ferry bridge, with gallews frame and accompanying machinery, North Ferry, East Boston. | J. Edward Ogden Company, Inc.                | March 18, 1927. | Unfinished.....              | 140,500 00          | 113,453 75               |
| 1 Foundations for ferry bridge, North Ferry, East Boston.  | W. H. Ellis & Son Company...                 | March 22, 1927. | Unfinished.....              | 26,789 00           | 22,286 12                |
| 1 Repairing hull, etc., of ferryboat "Ralph J. Palumbo."   | R. T. Green Company.....                     | April 8, 1927.  | Completed May 5, 1927.....   | 10,103 25           | 8,200 40                 |
| 1 Repairing bronze propeller blades.....   | The Atlantic Works.....                      | May 6, 1927.    | Completed June 3, 1927.....  | 930 00              | 930 00                   |
| 1 Furnishing and installing new boilers, etc., on ferryboat "John H. Sullivan."                                | Bethlehem Shipbuilding Corporation, Limited. | June 16, 1927.  | Unfinished.....              | 28,895 00           | Nothing.                 |
| 1 Repairing hull, etc., of ferryboat "General Sumner" ..   | Bethlehem Shipbuilding Corporation, Limited. | June 22, 1927.  | Completed Aug. 6, 1927.....  | 6,800 00            | 9,190 00                 |
| 1 Teaming coal to ferriesboats.....  | E. J. McHugh & Son.....                      | July 26, 1927.  | Completed Dec. 31, 1927....  | * 7 00              | 924 00                   |
| 1 Repairing ferriesboats "Charles C. Donoghoe" and "Daniel A. MacCormack."                                     | R. T. Green Company.....                     | Sept. 20, 1927. | Completed Nov. 17, 1927....  | 6,270 00            | 9,055 59                 |
| 1 Repairing piers at the North and South Ferries.....  | W. H. Ellis & Son Company...                 | Oct. 11, 1927.  | Unfinished.....              | 22,620 00           | Nothing.                 |
| 1 Repairing bronze propeller blades.....   | The Atlantic Works.....                      | Nov. 15, 1927.  | Completed Dec. 12, 1927....  | 906 00              | 770 10                   |
| 1 Weighing and vending machines in ferry houses.....   | Autosales Corporation.....                   | Feb. 1, 1927.   | Completed Dec. 31, 1927....  | † 400 00            | 400 00                   |

1 Advertised and awarded to the lowest bidder.

\* Per day.

† Per year; paid to city.

## Removing Snow and Ice.

| DISTRICT.          | Contractor.                 | Dated.         | Progress of Work. | Price Per Cubic Yard. | Amount Expended. in 1927. |
|--------------------|-----------------------------|----------------|-------------------|-----------------------|---------------------------|
| 1 District No. 1.  | J. J. McCarthy & Co.        | Dec. 14, 1927. | Unfinished.       | \$0 55                | Nothing.                  |
| 1 District No. 2.  | Leo J. Nawn, Inc.           | Dec. 23, 1927. | Unfinished.       | 55                    | Nothing.                  |
| 1 District No. 3.  | B. E. Grant Company.        | Dec. 23, 1927. | Unfinished.       | 55                    | Nothing.                  |
| 1 District No. 4.  | B. E. Grant Company.        | Dec. 23, 1927. | Unfinished.       | 55                    | Nothing.                  |
| 1 District No. 5.  | The Ormac Company.          | Dec. 14, 1927. | Unfinished.       | 60                    | Nothing.                  |
| 1 District No. 6.  | A. G. Tomasello & Son, Inc. | Dec. 14, 1927. | Unfinished.       | 65                    | Nothing.                  |
| 1 District No. 7.  | John J. Loonie.             | Dec. 23, 1927. | Unfinished.       | 55                    | Nothing.                  |
| 1 District No. 8.  | J. B. O'Rourke.             | Dec. 23, 1927. | Unfinished.       | 50                    | Nothing.                  |
| 1 District No. 9.  | J. A. Singarella.           | Dec. 14, 1927. | Unfinished.       | 65                    | Nothing.                  |
| 1 District No. 10. | D. M. Biggs & Co.           | Dec. 23, 1927. | Unfinished.       | 50                    | Nothing.                  |
| 1 District No. 11. | Edward J. Byrne.            | Dec. 23, 1927. | Unfinished.       | 58                    | Nothing.                  |
| 1 District No. 12. | A. DeStefano & Son, Inc.    | Dec. 14, 1927. | Unfinished.       | 54                    | Nothing.                  |

<sup>1</sup> Invitation bids; not advertised.

## HIGHWAY DIVISION (LIGHTING SERVICE).

## Contract in Force Made in Previous Years.

| CONTRACT.  | Awarded to                       | Dated.        | Progress of Work. | Price Per Gas Lamp Per Year. |
|--|----------------------------------|---------------|-------------------|------------------------------|
| <sup>1</sup> Furnishing gas and for the equipment and lighting of gas lamps for a period of ten years, from April 1, 1924, to March 31, 1934, inclusive. | Boston Consolidated Gas Company. | May 20, 1924. | Unfinished.       | \$11 00                      |

<sup>1</sup> Advertised and awarded to the only bidder.

## WATER DIVISION (WATER SERVICE).

## Laying and Relaying Water Pipes.

| CONTRACT.   | Awarded to                 | Dated.          | Progress of Work.           | Contract Estimated. | Amount Expended in 1927. |
|---|----------------------------|-----------------|-----------------------------|---------------------|--------------------------|
| <sup>1</sup> Dock square, Faneuil Hall square and Merchants row, city proper.   | L. P. Federico & Co. ....  | March 29, 1927. | Completed April 16, 1927... | \$1,468 75          | \$1,203 07               |
| <sup>1</sup> Barlow street, Cedar road, Forest Hills street, Pond place, Rhodia street, Walnut road, West Roxbury Parkway, West Roxbury; Church street and Hill-side street, Hyde Park, and Duxbury road, Dorchester. | John Williams.....         | April 5, 1927.  | Completed May 24, 1927...   | 4,445 00            | 5,118 48                 |
| <sup>1</sup> Union street, between Hanover street and Dock square, and in Dock square, city proper.   | A. Grande.....             | April 15, 1927. | Completed June 6, 1927....  | 2,568 50            | 2,118 16                 |
| <sup>1</sup> Southern Artery, between Washington street and Dorchester avenue, Dorchester.  | John Williams.....         | May 5, 1927.    | Completed May 28, 1927....  | 2,353 75            | 2,446 35                 |
| <sup>1</sup> Alicia road, Ormond street, Dorchester; Orange street and Sanborn avenue, West Roxbury.  | N. DiBartolomeo Company... | May 6, 1927.    | Completed Aug. 1, 1927....  | 2,865 50            | 3,129 72                 |
| <sup>1</sup> Elkins street, South Boston; Sumner terrace, Upham avenue, Wilder road, Delmont street, Blakeville street, Greenmount street, Dorchester; Greenville place, city proper.                                 | L. P. Federico & Co. ....  | May 21, 1927.   | Completed June 25, 1927.... | 3,541 25            | 3,386 99                 |
| <sup>1</sup> Southern Artery, between Dorchester avenue and Hallett street, Dorchester.   | John Williams.....         | May 26, 1927.   | Completed Aug. 9, 1927....  | 14,605 00           | 14,699 82                |
| <sup>1</sup> Columbine street, Hosmer street, Nortfolk terrace, Owencroft road, Dorchester; Chilton road, Hodgdon terrace, New Park avenue, Parkvale road, West Saville and Wolfe streets, West Roxbury.              | M. DeSisto Company.....    | May 26, 1927.   | Completed Aug. 6, 1927....  | 4,255 00            | 4,562 49                 |
| <sup>1</sup> Southern Artery and Owen street, Dorchester.....   | C. Russo.....              | June 4, 1927.   | Completed Aug. 8, 1927....  | 1,203 00            | 1,237 52                 |
| <sup>1</sup> Elbert street, Roxbury.....  | N. DiBartolomeo Company... | June 10, 1927.  | Completed July 8, 1927....  | 1,752 50            | 1,506 50                 |

|   |                                  |                 |                              |          |           |
|---|----------------------------------|-----------------|------------------------------|----------|-----------|
| 1 Lake Shore road, Brighton; Maple and Stratford streets, Woodward road, West Roxbury, and Belnel road, Hyde Park.  | C. Struzziery.....               | June 10, 1927.  | Completed July 16, 1927....  | 2,313 25 | 2,391 75  |
| 1 Ashton street, Dorchester; Pleasant street, Hyde Park; Forest Hills circle, St. Joseph street and Redgate road, West Roxbury  | A. Cefalo.....                   | June 28, 1927.  | Completed Aug. 13, 1927....  | 1,903 75 | 2,078 91  |
| 1 Mason and Washington streets, St. James avenue, city proper; Rangley, Gene, Ginitia, Glide streets, Dorchester, and St. Peters street, West Roxbury.                      | L. P. Federico & Co.....         | July 13, 1927.  | Completed Aug. 22, 1927....  | 4,327 50 | 3,982 23  |
| 1 Beaver, Church, Cleveland streets, Durant road, Franklin street, Glenwood avenue (west), River, Roxanna streets, Shirley road, Sunnyside and Thompson streets, Hyde Park. | John Williams.....               | July 18, 1927.  | Completed Aug. 22, 1927....  | 6,241 00 | 5,159 54  |
| 1 D street, between West Second street and Old Colony avenue, South Boston.   | Joseph Capone.....               | July 26, 1927.  | Completed Oct. 22, 1927....  | 6,455 00 | 3,023 68  |
| 1 Warrenton street, between Tremont and Stuart streets, city proper.  | M. DeSisto Company.....          | Aug. 3, 1927.   | Completed Aug. 31, 1927....  | 1,891 50 | 1,729 52  |
| 1 Brook road, Carroll street, Greenhill avenue, Ham-matt road, Knoll street, Stella road, West Rox-bury, and Hopewell road, Hyde Park.                                      | N. DiBartolomeo Company....      | Aug. 3, 1927.   | Completed Sept. 10, 1927.... | 2,210 00 | 2,143 36  |
| 1 River street, between Matapan square and Everett square, Dorchester and Hyde Park.  | John Williams.....               | Aug. 4, 1927.   | Completed Oct. 15, 1927....  | 4,831 50 | 3,768 49  |
| 1 Adams, Butler streets, Emerson avenue, Southern Artery, Winston street, Dorchester; Metropolitan avenue, Hyde Park, and West Roxbury parkway, West Roxbury.               | A. Grande.....                   | Aug. 26, 1927.  | Completed Dec. 6, 1927....   | 4,256 00 | 5,418 17  |
| 1 Hubbard road, Newkirk, Flavia and Wessex streets, Dorchester; Ashley street, Seaview avenue, East Boston, and Zamora court, West Roxbury.                                 | L. P. Federico & Co. ....        | Aug. 31, 1927.  | Completed Oct. 19, 1927....  | 4,107 00 | 2,977 35  |
| 1 Arlington, Providence and Reservoir streets, Hyde Park; Russett road, West Roxbury; Codman, Rockdale streets, Southern Artery and Vera street, Dorchester.                | E. O'Toole Contracting Com-pany. | Sept. 15, 1927. | Completed Dec. 22, 1927....  | 3,443 00 | 27,069 65 |

## Laying and Relaying Water Pipes.—Concluded.

| CONTRACT.   | Awarded to                      | Dated.         | Progress of Work. | Contract Estimated. | Amount Expended in 1927. |
|---|---------------------------------|----------------|-------------------|---------------------|--------------------------|
| <sup>1</sup> Adamson, Alcorn, Beechcroft, Gardner streets, Brighton; Clarendon avenue, Cross road and Overlook road, West Roxbury.  | A. Grande.....                  | Oct. 11, 1927. | Unfinished.....   | \$6,481 00          | \$4,085 95               |
| Dyer avenue, Jacob, Nevada streets, Dorchester; Bobolink, Doncaster streets, Ferndale road, Florence street, Glen road, private land (between Glade and Glenside avenues), Westover street, West Roxbury; and Belnel road, Hyde Park. | E. O'Toole Contracting Company. | Oct. 28, 1927. | Unfinished.....   | 4,218 50            | 2,912 86                 |
| <sup>1</sup> Grayson street, Humes road, Whitten street, Francis park, Charlemont street, Westmoreland street extension, Dorchester, and Wesley street, South Boston.   | John Williams.....              | Nov. 3, 1927.  | Unfinished.....   | 4,036 00            | 2,264 56                 |
| <sup>1</sup> Addington road, Gretter road, Hill, Mahler, Wolfe streets, West Roxbury; Fuller street, Dorchester, and Monroe road, Brighton.   | C. Russo.....                   | Nov. 15, 1927. | Unfinished.....   | 3,210 00            | 2,204 76                 |
| <sup>1</sup> Colwell road, Durland street, Hatherley road, Brighton, and Coleman street, Hyde Park.   | John Williams.....              | Dec. 7, 1927.  | Unfinished.....   | 2,078 50            | Nothing.                 |
| Southern Artery and Washington road, Dorchester.  | L. P. Federico & Co. ....       | Dec. 9, 1927.  | Unfinished.....   | 2,227 50            | Nothing.                 |
| <sup>1</sup> Ashland avenue, Charne avenue, Elwell road, West Roxbury Parkway, West Roxbury; Rose Garden circle, Brighton; Emerson avenue, Madison avenue and Southern Artery, Dorchester.  | A. DeStefano & Son, Inc. ....   | Dec. 14, 1927. | Unfinished.....   | 3,941 00            | Nothing.                 |

<sup>1</sup> Advertised and awarded to the lowest bidder.



## Miscellaneous.

| CONTRACT.  | Awarded to                       | Dated.          | Progress of Work.           | Contract Estimated. | Amount Expended in 1927. |
|--|----------------------------------|-----------------|-----------------------------|---------------------|--------------------------|
| <sup>2</sup> Construction of concrete tunnel with steel pipe shafts under the New York, New Haven & Hartford Railroad and the Boston & Albany Railroad at Arlington square, city proper. | Simpson Brothers Corporation.    | Feb. 1, 1927.   | Completed Nov. 30, 1927...  | \$100,000 00        | \$87,977 83              |
| <sup>3</sup> Overhauling the steering engine in the Water Division boat "Waterest."  | Walter H. Moreton Corporation.   | Feb. 26, 1927.  | Completed March 26, 1927,   | 800 00              | 800 00                   |
| <sup>4</sup> Assembling 50 B. & F. post hydrants.....  | McCulloch Manufacturing Company. | May 2, 1927.    | Completed Oct. 26, 1927...  | 4,700 00            | 5,364 94                 |
| <sup>2</sup> Excavating and refilling service pipe trenches in South Boston, Roxbury, Dorchester, West Roxbury, Brighton.  | John Williams.....               | May 20, 1927.   | Completed June 16, 1927...  | 3,175 00            | 2,290 80                 |
| <sup>1</sup> Excavating and refilling service pipe trenches in Roxbury, Dorchester, West Roxbury, Brighton.  | Zoppo & Civitarese.....          | June 14, 1927.  | Completed July 20, 1927...  | 3,250 00            | 2,400 00                 |
| <sup>1</sup> Cleaning water pipes in West Roxbury.....   | General Pipe Cleaning Company.   | July 7, 1927.   | Completed Oct. 25, 1927...  | 10,036 25           | 10,201 25                |
| <sup>1</sup> Excavating and refilling service pipe trenches in South Boston, Roxbury, Dorchester, West Roxbury, Brighton and Hyde Park.  | John Williams.....               | July 26, 1927.  | Completed Sept. 15, 1927... | 5,130 00            | 5,160 08                 |
| <sup>4</sup> Assembling 100 6-inch gate valves.....  | McCulloch Manufacturing Company. | Aug. 3, 1927.   | Completed Sept. 1, 1927...  | 1,350 00            | 1,363 50                 |
| <sup>1</sup> Excavating and refilling service pipe trenches in South Boston, Roxbury, Dorchester, Brighton, West Roxbury and Hyde Park.  | L. P. Federico & Co.....         | Sept. 30, 1927. | Completed Dec. 19, 1927...  | 5,150 00            | 4,812 68                 |
| <sup>4</sup> Assembling 50 B. & F. post hydrants.....  | McCulloch Manufacturing Company. | Oct. 20, 1927.  | Completed Dec. 15, 1927...  | 4,787 50            | Nothing.                 |
| <sup>4</sup> Assembling 100 6-inch gate valves.....  | McCulloch Manufacturing Company. | Oct. 24, 1927.  | Unfinished.....             | 1,350 00            | Nothing.                 |
| <sup>1</sup> Setting hydrant, gate, blow-off and meter boxes to replace existing boxes in city proper, South Boston and Roxbury.   | M. DeSisto Company.....          | Nov. 15, 1927.  | Completed Dec. 19, 1927...  | 1,575 00            | 1,115 63                 |

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Advertised and awarded to the second bidder.<sup>3</sup> Only bid; not advertised.<sup>4</sup> Advertised and awarded to the only bidder.

## High Pressure Fire Service.

| CONTRACT.  | Awarded to                    | Dated.         | Progress of Work. | Contract<br>Estimated. | Amount<br>Expended<br>in 1927. |
|--|-------------------------------|----------------|-------------------|------------------------|--------------------------------|
| <sup>1</sup> Relocating high pressure hydrants in Kneeland street, between Washington and Albany streets, city proper. | C. & R. Construction Company. | Dec. 10, 1927. | Unfinished.....   | \$3,250 00             | \$2,751 45                     |

<sup>1</sup> Invitation bids; not advertised; awarded to the lower bidder.



## Area of Pavements.

Area in Square Yards and Character of Pavements on Accepted Streets, January 1, 1928.

| District.             | Sheet Asphalt. | Asphalt Concrete. | Granite Block. | Wood Block. | Plank on Bridges. | Brick. | Concrete. | Macadam.  | Gravel. | Not Graded. | Totals.    |
|-----------------------|----------------|-------------------|----------------|-------------|-------------------|--------|-----------|-----------|---------|-------------|------------|
| Year 1926 report..... | 949,017        | 1,421,142         | 2,732,658      | 269,233     | 27,112            | 79,956 | 112,210   | 5,629,035 | 461,736 | 96,868      | 11,778,967 |
| Per cent .....        | 8.06           | 12.06             | 23.20          | 2.29        | 0.23              | 0.68   | 0.95      | 47.79     | 3.92    | 0.82        | 100.00     |
| January 1, 1928.      |                |                   |                |             |                   |        |           |           |         |             |            |
| City Proper .....     | 405,001        | 340,785           | 874,798        | 133,967     | 5,507             | 13,109 | 3,401     | 269,136   | 337     | 18,584      | 2,064,625  |
| Charlestown.....      | 6,609          | 414               | 261,673        | 2,622       | 2,112             | 756    | 18,751    | 151,723   | .....   | 2,504       | 447,164    |
| East Boston.....      | 46,663         | 39,111            | 147,490        | 187         | 1,422             | 771    | .....     | 441,337   | 16,282  | 865         | 694,128    |
| South Boston.....     | 32,795         | 57,691            | 427,407        | 13,457      | 5,599             | 3,081  | .....     | 366,669   | 13,454  | 40,103      | 960,256    |
| Roxbury.....          | 208,776        | 191,764           | 408,668        | 23,511      | 1,022             | 27,994 | 16,124    | 772,403   | 17,645  | 986         | 1,668,893  |
| West Roxbury.....     | 126,260        | 338,957           | 171,971        | 417         | 1,471             | .....  | 27,820    | 1,117,059 | 42,806  | 28,342      | 1,855,103  |
| Dorchester.....       | 144,054        | 302,156           | 278,670        | 45,909      | 3,458             | 23,969 | 31,506    | 1,602,819 | 66,545  | 29,903      | 2,528,989  |
| Brighton.....         | 109,004        | 260,813           | 105,957        | 4,715       | 1,696             | 17     | 41,453    | 496,681   | 57,070  | 6,415       | 1,083,821  |
| Hyde Park.....        | 207            | 32,301            | 13,028         | 2,212       | 2,839             | .....  | .....     | 345,550   | 206,425 | 14,303      | 616,865    |
| Totals.....           | * 1,079,369    | † 1,563,992       | ‡ 2,689,662    | 226,997     | 25,126            | 69,697 | § 139,055 | 5,563,377 | 420,564 | 142,005     | 11,919,844 |
| Per cent.....         | 9.06           | 13.12             | 22.57          | 1.90        | 0.21              | 0.58   | 1.17      | 46.67     | 3.53    | 1.19        | 100.00     |

NOTE.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* Of this amount 470 square yards is Unionite, and 114 square yards is rubber.

† Of this amount 771 square yards is asphalt block; 140,815 square yards is asphalt concrete; 1,119,076 square yards is bitulithic; 959 square yards is Fibre-tine; 22,072 square yards is Simaseco; 280,084 square yards is Topoka and 215 square yards is Carey Elastite paving.

‡ Of this amount 946 square yards is cobble, and 1,639,084 square yards is granite block paving on concrete base.

§ Of this amount 946 square yards is Blome Granitoid concrete blocked pavement, and 836 square yards is Soilamies.

|| Of this amount 2,477,328 square yards is bituminous macadam.

33,022 square yards public alleys included in this table.

301,215 square yards public streets in charge of Park Department included in this table.

71,345 square yards public streets in charge of Commonwealth of Massachusetts included in this table.

In addition to this table there are 7,031 square yards of accepted footways.

## Length of Pavements.

Length in Miles and Character of Pavements on Accepted Streets, January 1, 1928.

| DISTRICT.             | Sheet Asphalt. | Asphalt Concrete. | Granite Block. | Wood Block. | Plank on Bridges. | Brick. | Concrete. | Macadam. | Gravel. | Not Graded. | Totals. |
|-----------------------|----------------|-------------------|----------------|-------------|-------------------|--------|-----------|----------|---------|-------------|---------|
| Year 1926 report..... | 54.04          | 67.57             | 104.07         | 11.51       | 1.22              | 3.89   | 6.70      | 340.24   | 29.91   | 2.57        | 621.72  |
| Per cent.....         | 8.69           | 10.87             | 16.74          | 1.85        | 0.20              | 0.63   | 1.08      | 54.72    | 4.81    | 0.41        | 100.00  |
| January 1, 1928.      |                |                   |                |             |                   |        |           |          |         |             |         |
| City Proper.....      | 22.64          | 14.61             | 36.19          | 5.92        | 0.22              | 0.62   | 0.55      | 15.45    | 0.07    | 0.44        | 96.71   |
| Charlestown.....      | 0.41           | 0.03              | 11.37          | 0.11        | 0.08              | 0.03   | 0.78      | 10.55    | .....   | .....       | 23.36   |
| East Boston.....      | 2.07           | 1.49              | 6.58           | 0.01        | 0.10              | 0.04   | .....     | 22.02    | 0.86    | 0.04        | 33.21   |
| South Boston.....     | 2.59           | 2.60              | 17.76          | 0.78        | 0.25              | 0.13   | .....     | 19.82    | 0.74    | 1.46        | 46.13   |
| Roxbury.....          | 11.89          | 9.45              | 15.30          | 1.09        | 0.04              | 1.46   | 0.76      | 50.26    | 1.34    | 0.05        | 91.64   |
| West Roxbury.....     | 8.17           | 17.12             | 3.75           | 0.02        | 0.07              | .....  | 1.83      | 72.26    | 2.67    | 0.32        | 106.21  |
| Dorchester.....       | 8.63           | 15.14             | 10.44          | 1.87        | 0.14              | 1.07   | 1.84      | 97.01    | 4.53    | 0.14        | 140.81  |
| Brighton.....         | 4.58           | 12.17             | 0.92           | 0.11        | 0.10              | .....  | 2.22      | 28.47    | 3.81    | 0.11        | 52.49   |
| Hyde Park.....        | .....          | 1.44              | 0.07           | 0.13        | 0.16              | .....  | .....     | 19.78    | 13.48   | 0.24        | 35.30   |
| Totals.....           | * 60.98        | † 71.05           | † 102.38       | 10.04       | 1.16              | 3.35   | § 7.98    | 335.62   | 27.50   | 2.80        | 625.86  |
| Per cent.....         | 9.74           | 11.83             | 16.36          | 1.60        | 0.19              | 0.53   | 1.28      | 53.63    | 4.39    | 0.45        | 100.00  |

NOTE.— In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* Of this amount 0.02 mile is Unionite, and 0.00 mile is rubber.

† Of this amount 0.02 mile is asphalt block, and 6.51 miles is asphalt concrete, and 51.38 miles is bitulithic, and 0.06 mile is Filbertine, and 1.28 miles is Simasco and 14.80 miles is Topeka, and 0.00 mile is Carey Elastice paving.

‡ Of this amount 0.04 mile is cobble, and 53.69 miles is granite block paving on concrete base.

§ Of this amount 0.06 mile is Blome Grantoid concrete blocked pavement, and 0.04 mile is Sollamies.

|| Of this amount 140.93 miles is bituminous macadam.

7.28 miles public alleys included in this table.

|| 24 miles public streets in charge of Park Department included in this table.

In addition to this table there are 1.36 miles of accepted footways.

The following changes were made in pavement during the year:

0.01 mile or 1,036 square yards sheet asphalt changed to bitulithic.  
 0.00 mile or 151 square yards sheet asphalt changed to granite block.  
 0.00 mile or 37 square yards asphalt concrete changed to bitulithic.  
 0.03 mile or 699 square yards bitulithic changed to sheet asphalt.  
 0.00 mile or 6 square yards bitulithic changed to granite block.  
 0.01 mile or 104 square yards bitulithic changed to concrete.  
 0.01 mile or 100 square yards Topeka changed to sheet asphalt.  
 0.00 mile or 51 square yards Topeka changed to bitulithic.  
 0.80 mile or 28,953 square yards granite block changed to sheet asphalt.  
 0.26 mile or 12,443 square yards granite block changed to bitulithic.  
 0.72 mile or 17,659 square yards granite block changed to concrete.  
 0.03 mile or 578 square yards wood block changed to sheet asphalt.  
 1.46 miles or 42,321 square yards wood block changed to bitulithic.  
 0.02 mile or 358 square yards wood block changed to granite block.  
 0.01 mile or 278 square yards plank on bridges changed to granite block.  
 0.06 mile or 1,834 square yards plank on bridges changed to wood block.  
 0.53 mile or 10,891 square yards brick changed to sheet asphalt.  
 2.47 miles or 40,270 square yards macadam changed to sheet asphalt.  
 0.22 mile or 3,321 square yards macadam changed to asphalt concrete.  
 2.87 miles or 57,049 square yards macadam changed to bitulithic.  
 0.30 mile or 8,240 square yards macadam changed to granite block.  
 0.01 mile or 127 square yards macadam changed to plank on bridges.  
 0.05 mile or 798 square yards macadam changed to concrete.  
 2.49 miles or 40,164 square yards gravel changed to sheet asphalt.  
 0.00 mile or 42 square yards gravel changed to asphalt concrete.  
 1.53 miles or 24,111 square yards gravel, changed to bitulithic.  
 0.49 mile or 7,987 square yards gravel changed to concrete.  
 0.06 mile or 1,994 square yards gravel changed to macadam.  
 0.04 mile or 2,198 square yards not graded changed to sheet asphalt.  
 0.00 mile or 5,622 square yards not graded changed to granite block.  
 0.01 mile or 300 square yards not graded changed to concrete.  
 0.00 mile or 1,736 square yards not graded changed to macadam.

### EMPLOYEES.

The following tables show the number of requisitions made on the Civil Service Commission for men; the number appointed, reinstated, died, resigned, transferred and retired; also the grade and number of employees in the department:

|   |      |
|---|------|
| Requisitions made on the Civil Service Commission . | 35   |
| Number of men called . . . . .                      | 45   |
| Number of men certified . . . . .                   | 98   |
| Number of men appointed . . . . .                   | 27   |
| Provisional appointments made permanent . . . . .   | 1    |
| Promotions allowed . . . . .                        | 25   |
| Reinstatements allowed . . . . .                    | * 14 |
| Number of men resigned . . . . .                    | 18   |
| Number of men died . . . . .                        | 40   |

\* Nine on eligible list January 1, 1927.

|   |    |
|---|----|
| Number retired under the Veterans' Retirement Act . . . . . | 1  |
| Number retired under the Boston Retirement Act . . . . .    | 81 |
| Number of transfers to other departments . . . . .          | 14 |
| Number of transfers from other departments . . . . .        | 28 |
| Number of men discharged . . . . .                          | 5  |

The records of the department show that there are now 3,052 persons eligible for employment in the several divisions and of that number 2,978 were upon the January, 1928, pay rolls.

### Grade and Number of Employees.

| TITLE.                                  | SERVICES.          |         |        |           |                     |        |         |           |        |
|---|--------------------|---------|--------|-----------|---------------------|--------|---------|-----------|--------|
|   | Central<br>Office. | Paving. | Sewer. | Sanitary. | Street<br>Cleaning. | Ferry. | Bridge. | Lighting. | Total. |
| Commissioner . . . . .                  | 1                  |         |        |           |                     |        |         |           | 1      |
| Division engineers . . . . .            |                    | 1       | 1      | 1         |                     |        | 1       |           | 5      |
| Engineers in charge . . . . .           |                    | 1       |        |           |                     |        |         | 1         | 2      |
| Chief clerk . . . . .                   | 1                  |         |        |           |                     |        |         |           | 1      |
| Clerks . . . . .                        | 38                 | 21      | 8      | 2         | 2                   | * 1    | 2       | 1         | 117    |
| Assistant engineers (civil) . . . . .   |                    | 15      | 25     | 1         |                     |        | 10      |           | 56     |
| Draughtsmen . . . . .                   |                    | 2       | 12     |           |                     |        | 5       |           | 22     |
| Instrumentmen . . . . .                 |                    | 14      | 24     |           |                     |        | 4       |           | 49     |
| Rodmen . . . . .                        |                    | 2       | 1      |           |                     |        | 1       |           | 4      |
| Inspectors . . . . .                    | 1                  | 35      | 44     | 53        | 29                  |        | 3       | 1         | 197    |
| Foremen . . . . .                       |                    | 12      | 5      | 10        | 9                   |        | 1       |           | 49     |
| Subforemen . . . . .                    |                    | 20      |        |           |                     |        | 3       |           | 23     |
| Address printers . . . . .              |                    |         |        |           |                     |        |         | 3         | 3      |
| Blacksmiths and assistants . . . . .    |                    | 8       | 3      | 20        |                     |        |         | 5         | 36     |
| Blueprinters . . . . .                  | 2                  |         |        |           |                     |        |         |           | 2      |
| Chauffeurs-teamsters . . . . .          | 1                  | 17      | 7      | 56        | 24                  |        | 4       |           | 123    |
| Carpenters and assistants . . . . .     |                    | 19      | 3      | 5         |                     | 4      | 14      |           | 51     |
| Chief inspectors . . . . .              |                    | 1       |        |           | 1                   |        |         | 1         | 3      |
| Cement testers and assistants . . . . . | 3                  |         |        |           |                     |        |         |           | 3      |
| Chemists and assistants . . . . .       |                    | 2       |        |           |                     |        |         |           | 2      |
| Coal passers . . . . .                  |                    |         | 3      |           |                     |        |         |           | 3      |
| Cashiers . . . . .                      |                    |         |        |           |                     | 1      |         |           | 1      |
| Drawtenders and assistants . . . . .    |                    |         |        |           |                     |        | 129     |           | 129    |
| <i>Carried forward.</i> . . . .         | 47                 | 170     | 136    | 148       | 65                  | 6      | 177     | 2         | 882    |

## Grade and Number of Employees.—Continued.

| TITLE.                            | SERVICES.          |         |        |           |                     |        |         |           |        |        |
|-----------------------------------|--------------------|---------|--------|-----------|---------------------|--------|---------|-----------|--------|--------|
|                                   | Central<br>Office. | Paving. | Sewer. | Sanitary. | Street<br>Cleaning. | Ferry. | Bridge. | Lighting. | Water. | Total. |
| <i>Brought forward</i> .....      | 47                 | 170     | 136    | 148       | 65                  | 6      | 177     | 2         | 131    | 882    |
| Deckhands.....                    |                    |         |        |           |                     | 25     |         |           |        | 25     |
| Engineers (steam).....            |                    | 11      | 6      |           |                     | 12     |         |           | 1      | 30     |
| Electricians.....                 |                    |         | 2      |           |                     | 1      | 1       |           |        | 4      |
| Feeders.....                      |                    | 1       |        | 6         |                     |        |         |           |        | 7      |
| Firemen.....                      |                    | 5       | 15     |           |                     | 30     |         |           | 1      | 51     |
| Gatemen.....                      |                    |         | 4      |           |                     | 16     |         |           |        | 20     |
| General foremen.....              |                    | 2       | 1      |           | 1                   | 1      |         |           | 2      | 7      |
| Harnessmakers and assistants..... |                    |         |        | 9         |                     |        |         |           |        | 9      |
| Head chauffeurs.....              |                    | 4       |        |           |                     |        |         |           |        | 4      |
| Horseshoers.....                  |                    |         |        | 7         |                     |        |         |           |        | 7      |
| Janitors.....                     |                    |         |        |           |                     | 1      |         |           |        | 1      |
| Matrons.....                      |                    |         |        |           |                     | 7      |         |           |        | 7      |
| Joiners.....                      |                    |         |        |           |                     | 2      |         |           |        | 2      |
| Laborers.....                     |                    | 312     | 85     |           | 110                 | 12     | 6       |           | 170    | 695    |
| Lampighter.....                   |                    |         |        |           |                     | 1      |         |           |        | 1      |
| Machinist and assistants.....     |                    |         | 6      |           |                     | 9      | 1       |           | 20     | 36     |
| Meter testers.....                |                    |         |        |           |                     |        |         |           | 8      | 8      |
| Meter readers.....                |                    |         |        |           |                     |        |         |           | 32     | 32     |
| Masons (stone and brick).....     |                    |         | 10     |           |                     |        |         |           | 2      | 12     |
| Medical inspectors.....           |                    | 1       |        | 1         | 1                   |        |         |           |        | 3      |
| Oilers.....                       |                    |         | 14     |           |                     | 16     |         |           |        | 30     |
| Pipe fitters and repairers.....   |                    |         |        |           |                     | 2      |         |           | 16     | 18     |
| Pavers.....                       |                    | 74      | 1      |           |                     |        |         |           | 3      | 78     |
| Plumbers.....                     |                    |         |        |           |                     |        |         |           | 20     | 20     |
| Painters.....                     |                    | 3       | 1      | 10        |                     | 3      | 3       |           |        | 20     |
| Captains.....                     |                    |         |        |           |                     | 12     |         |           |        | 12     |
| Quartermasters.....               |                    |         |        |           |                     | 12     |         |           |        | 12     |
| Repairers.....                    |                    | 23      | 1      |           |                     |        |         |           | 94     | 118    |
| Roofer.....                       |                    |         |        |           |                     | 1      |         |           |        | 1      |
| Rammers.....                      |                    | 9       |        |           |                     |        |         |           |        | 9      |
| Rigger.....                       |                    |         | 1      |           |                     | 1      |         |           |        | 2      |
| Sealers.....                      |                    |         |        |           |                     |        |         |           | 3      | 3      |
| <i>Carried forward</i> .....      | 47                 | 615     | 283    | 181       | 177                 | 170    | 188     | 2         | 503    | 2,166  |

## Grade and Number of Employees.—Concluded.

| TITLE.                           | SERVICES.       |         |        |           |                  |        |         |           |        |        |
|----------------------------------|-----------------|---------|--------|-----------|------------------|--------|---------|-----------|--------|--------|
|                                  | Central Office. | Paving. | Sewer. | Sanitary. | Street Cleaning. | Ferry. | Bridge. | Lighting. | Water. | Total. |
| <i>Brought forward</i> .....     | 47              | 615     | 283    | 181       | 177              | 170    | 188     | 2         | 503    | 2,166  |
| Sewer flushers.....              |                 |         | 22     |           |                  |        |         |           |        | 22     |
| Supervisors and deputy.....      |                 | 1       |        | 1         | 1                |        | 1       |           |        | 4      |
| Stenographers.....               |                 | 1       | 1      |           |                  |        |         |           |        | 2      |
| Stonecutters.....                |                 | 7       | 2      |           |                  |        |         |           |        | 9      |
| Superintendents and deputy.....  |                 | 2       | 1      |           |                  |        |         |           | 2      | 5      |
| Stockkeepers.....                |                 |         |        | 1         |                  | 1      |         |           | 1      | 3      |
| Stableman.....                   |                 | 12      | 3      | 24        | 19               |        | 1       |           | 1      | 60     |
| Tankman.....                     |                 |         |        |           |                  | 1      |         |           |        | 1      |
| Teamsters and helpers.....       |                 | 78      | 1      | 378       | 227              |        |         |           | 6      | 690    |
| Telephone operators.....         |                 |         |        | 1         |                  |        |         |           | 1      | 2      |
| Tollmen.....                     |                 |         |        |           |                  | 13     |         |           |        | 13     |
| Chief veterinarian.....          |                 | 1       |        |           |                  |        |         |           |        | 1      |
| Watchman.....                    |                 | 2       | 10     | 12        | 4                |        | 2       |           | 6      | 36     |
| Weighers.....                    |                 | 1       |        | 1         |                  |        |         |           |        | 2      |
| Wharfingers.....                 |                 |         |        | 2         |                  |        |         |           |        | 2      |
| Wharfmen.....                    |                 |         |        | 2         |                  |        |         |           |        | 2      |
| Wheelwrights and assistants..... |                 |         |        | 4         |                  |        |         |           |        | 4      |
| Yardmen.....                     |                 | 5       | 2      | 12        | 2                |        |         |           | 7      | 28     |
| Totals.....                      | 47              | 725     | 325    | 619       | 430              | 185    | 192     | 2         | 527    | 3,052  |

## Number of Employees Actually Employed January 1, 1927, and January 1, 1928.

|                      | Central Office. | Bridge. | Ferry. | Lighting. | Paving. | Sanitary. | Sewer. | Street Cleaning, and Watering. | Water. | Total. |
|----------------------|-----------------|---------|--------|-----------|---------|-----------|--------|--------------------------------|--------|--------|
| January 1, 1927..... | 39              | 196     | 176    | 3         | 711     | 641       | 328    | 433                            | 536    | 3,063  |
| January 1, 1928..... | 38              | 191     | 183    | 2         | 710     | 596       | 318    | 413                            | 527    | 2,978  |

## Total Eligible Force.

|                      |    |     |     |   |     |     |     |     |     |       |
|----------------------|----|-----|-----|---|-----|-----|-----|-----|-----|-------|
| January 1, 1927..... | 46 | 198 | 185 | 3 | 737 | 661 | 336 | 446 | 539 | 3,151 |
| January 1, 1928..... | 47 | 192 | 185 | 2 | 725 | 619 | 325 | 430 | 527 | 3,052 |



## Appointments, Transfers, Resignations, Retirements, Deaths, etc., of Employees.

| Died. | Retired.<br>Act of 1922. | Retired Veterans,<br>Act of 1911. | Transferred to<br>Other Depart-<br>ments. | Transferred to<br>Other Services. | Discharged. | Resigned. | January 1, 1927. | SERVICES.<br>1927-1928. | January 1, 1928. | Transferred from<br>Other Services. | Transferred from<br>Other Depart-<br>ments. | Reinstated. | Appointed. |
|-------|--------------------------|-----------------------------------|---|-----------------------------------|-------------|-----------|------------------|-------------------------|------------------|-------------------------------------|---|-------------|------------|
| ....  | 1                        | ....                              | 1   | 3                                 | ...         | ...       | 46               | Central Office.....     | * 47             | 3                                   | ....  | 1           | 2          |
| 2     | 6                        | ....                              | 1   | 2                                 | 1           | ...       | 198              | Bridge.....             | 192              | 2                                   | 2   | ....        | 2          |
| ....  | 3                        | ....                              | 1   | 7                                 | ...         | ...       | 185              | Ferry.....              | 185              | ....                                | 2   | 1           | 8          |
| 1     | ....                     | ....                              | ....                                      | ....                              | ....        | ....      | 3                | Lighting.....           | 2                | ....                                | ....  | ....        | ....       |
| 9     | 27                       | ....                              | 1   | 13                                | 1           | 11        | 737              | Paving.....             | 725              | 36                                  | 7   | 2           | 5          |
| 9     | 10                       | ....                              | 2   | 32                                | 2           | 4         | 661              | Sanitary.....           | 619              | 7                                   | 5   | 1           | 4          |
| 8     | 15                       | ....                              | 3   | 5                                 | ...         | 1         | 446              | Street Cleaning.....    | 430              | 8                                   | 8   | ....        | ....       |
| 4     | 7                        | ....                              | 2   | 10                                | ...         | 2         | 336              | Sewer.....              | 325              | 10                                  | 1   | ....        | 3          |
| 7     | 12                       | 1                                 | 3   | 7                                 | 1           | ...       | 539              | Water.....              | 527              | 13                                  | 3   | ....        | 3          |
| 40    | 81                       | 1                                 | 14  | 79                                | 5           | 18        | 3,151            | Totals.....             | 3,052            | 79                                  | 28  | 5           | 27         |

\* Includes eight Central Office employees who are paid on Water Service pay roll.





PART II.  
APPENDICES.

## APPENDIX A.

| CENTRAL OFFICE.   |                    |
|---|--------------------|
| Appropriation . . . . .   | \$88,097 55        |
| Transfers . . . . .   | 116 51             |
|   | <hr/>              |
|   | \$88,214 06        |
| Expenditures from January 1, 1927, to December 31, 1927 . . . . . | <u>88,214 06</u>   |
| <i>Expenditures.</i>  |                    |
| Salary, Commissioner . . . . .                                    | \$9,000 00         |
| Salaries of clerks, stenographers, etc. . . . .                   | 70,610 92          |
| Automobile expenses:  |                    |
| Wages of chauffeur . . . . .                                      | \$1,699 67         |
| Franklin sedan . . . . .  | 2,600 00           |
| Repairs, etc. . . . .   | 46 75              |
| Gasoline and oils . . . . .                                       | 243 09             |
| Tires and tubes . . . . .   | 73 30              |
| Supplies . . . . .  | 147 13             |
| Registration . . . . .  | 15 00              |
|   | <hr/>              |
|   | 4,824 94           |
| Printing . . . . .  | 1,790 27           |
| Stationery . . . . .  | 786 54             |
| Postage . . . . .   | 475 39             |
| Telephone tolls . . . . .   | 37 00              |
| Burroughs adding machine . . . . .                                | 98 00              |
| Directories . . . . .   | 52 50              |
| Photographs . . . . .   | 192 50             |
| Books, papers and office supplies . . . . .                       | 266 00             |
| Premium on bonds . . . . .  | 5 00               |
| Expenses of expert . . . . .                                      | 75 00              |
|   | <hr/>              |
|   | <u>\$88,214 06</u> |

## APPENDIX B.

REPORT OF THE DIVISION ENGINEER OF THE  
BRIDGE AND FERRY DIVISION.

BOSTON, January 1, 1928.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

DEAR SIR,—I respectfully submit the following report of the income, expenditures and operation of the Bridge and Ferry Division for the year ending December 31, 1927. The expenditures of the division in the regular maintenance appropriations of the department were \$1,021,741.76. Under a number of special appropriations \$390,752.61 were expended, making the total expenditures for the year \$1,412,494.37.

The more important works undertaken during the past year in the Bridge Service were the rebuilding of the West Newton Street Bridge over the New York, New Haven & Hartford Railroad, and the reconstruction of the spans of Broadway Bridge over the main lines of the New York, New Haven & Hartford Railroad.

In the Ferry Service a new electrically operated ferry bridge with its foundations was constructed at the North Ferry, East Boston.

As noted in the reports for some years past, Congress Street Bridge is in very bad condition and should be rebuilt at once. Chapter 157 of the Acts 1926 authorized the borrowing \$800,000 outside the debt limit for this work and the act has been accepted by the city.

The pile approaches to the draw span of Chelsea Bridge over the North channel of the Mystic river are steadily deteriorating and should be rebuilt preferably with steel superstructure on masonry piers. The work would cost approximately \$1,500,000.

An appropriation has been made for reconstruction of Columbus Avenue Bridge over the Boston & Albany Railroad, and the rebuilding should be completed in the summer of 1928.

In connection with the widening of Morton, Ashland and River streets, the bridges on these streets should be rebuilt.

In the Ferry Service two new boats should be provided in place of the old wooden vessels which are unfit for the heavy motor traffic. The two old wooden ferry bridges should also be replaced by modern electrically operated steel bridges.

*Broadway Bridge, over New York, New Haven & Hartford Railroad.*

The Boston Bridge Works of Boston was awarded a contract approved February 14, for the rebuilding of span 11 and 12 of this bridge.

These spans are over the main line tracks of the railroad and the steel was in badly corroded condition from the locomotive fumes. Traffic conditions are much improved by rebuilding as in the new design there was eliminated a through girder which in the old structure was in the middle of the roadway so that now the roadway is clear from curb to curb. The entire superstructure of these spans was rebuilt as well as the column bent at Pier 11. The new spans are of steel encased in concrete with concrete slab deck. The roadway is paved with granite block. The sidewalks are concrete; cast-iron plates are provided over the railroad tracks to protect the structure from the blast action of the locomotives.

The old masonry piers were utilized as foundations for the new spans. Foot travel was maintained during construction by a temporary bridge built of wood and steel. A clearance of 16.12 feet was provided above the railroad tracks. This work was completed October 10, 1927. The contract price for its construction was \$68,584.20.

*Charlestown Bridge, over Charles River.*

On June 10 a contract was approved with Maurice M. Devine for pointing the masonry piers of this bridge. The joints were carefully cleaned by hand tools and the pointing was done with a cement gun which forced the cement mortar completely into the cavities in the joints in a much more satisfactory manner than could be done by hand pointing. The joints were finished by hand tools to make a more satisfactory appearance.

In connection with this work the steelwork of the first plate girder span from the Boston side of the bridge on the westerly side was covered with a protective coating of gunite. This work was completed September 24. The contract price was \$9,000.83.

*Chelsea Bridge North.*

April 4, 1927, a contract was approved with the Rendle Corporation for repairing the easterly end of the middle draw fender pier of Chelsea Bridge North which had been badly damaged by a steamer. New piling was driven and the timber work renewed where necessary. The work was completed June 14, 1927, at a cost to the city of \$4,765.44.

February 23 a contract was approved with the Boston Bridge Works for repairing the running mechanism of the draw span. This work consisted of adjusting the straps, rods and other machinery at the center bearing. The work was completed April 20 at a cost of \$1,932.79.

June 24 a contract was approved with Maurice M. Devine for furnishing and laying wood paving with asphalt joints on roadway of the draw span. The wooden flooring under the paving was repaired, waterproofing placed on this plank and then the wood block paving laid. The date of completion was August 20. The contract price for this work was \$9,708.65.

August 9 a contract was approved with the Rendle Corporation for repairing the westerly end of the northerly fender pier which had been badly damaged by the steamer "Coulee" of the Fall River Navigation Company. The entire west end of the pier was rebuilt for a distance of about 175 feet at a contract price of \$10,984.01. Work was completed October 6.

*Chelsea Bridge South.*

A contract with the Boston Bridge Works, Inc., for repairing counterweight links and adjusting the shear locks at Chelsea Bridge over the South channel of the Mystic river was approved March 11, 1927. The contract cost was \$1,939.

*Dorchester Avenue Bridge, over Fort Point Channel.*

November 3, 1927, a contract was approved with Maurice M. Devine for repairing the sidewalk on the

northeasterly pile approach. The old asphalt sidewalk was removed and replaced with reinforced concrete. The planking, stringers and other timberwork supporting the sidewalk was replaced with new lumber where necessary. This work is still in progress and will be completed at an early date.

*Meridian Street Bridge, over Chelsea Creek.*

September 13, 1927, a contract was approved with the Rendle Corporation for rebuilding the sidewalks of pile structure. The asphalt sidewalks which were nearly worn out were removed and replaced with reinforced concrete slabs with expansion joints every 30 feet. The wooden flooring carrying this slab was renewed where necessary. The piling supporting the sidewalks was also repaired. The amount paid the contractors for this work was \$9,136.08. Work was completed November 22, 1927.

*Northern Avenue Bridge.*

The entire steel superstructure of this bridge was cleaned and painted under a contract approved July 1 with Maurice M. Devine. After cleaning with scaling tools and wire brushes, a patch coat of red lead and linseed oil was applied followed by two coats of blue lead and linseed oil. The contract price for the work was \$7,300; the date of completion was September 30.

August 14 a contract was approved with W. H. Ellis & Son Company for repairing the wooden fenders with new piling and timber work. The work was completed September 20; the contract price was \$4,842.12.

December 15 a contract was approved with the Boston Bridge Works for furnishing labor and materials for the repairing of the turning mechanism of the draw span at an estimated cost of \$3,000. This work is still in progress. It involves adjusting the wheels and spider rods, placing a new band on the outside of the wheels, new sleeves in the wheels, rebolting some track sections and some other minor repairs. Some leaks developed in the draw pit masonry and all the stone masonry facing was pointed. This greatly reduced the flow of water but there is no assurance that the leaking condition will not arise again as this draw foundation has been settling. The cost of pointing was \$7,300.



*Summer Street Bridge, over Reserved Channel.*

A contract with the Rendle Corporation was approved May 25 for replacing old piling, repairing bracing, walling and other timber work of the waterway of this bridge. This work was completed July 2. The contract price was \$3,906.20.

*West Newton Street Bridge, over New York, New Haven & Hartford Railroad.*

A new steel bridge superstructure has been built on the old abutments, replacing the old superstructure which was in bad condition due to corrosion of the iron-work. The new bridge is of the deck plate girder type, has one roadway and two sidewalks. The roadway is of reinforced concrete slab construction paved with 3½-inch granite block and the sidewalks are granolithic. The sidewalk slabs are removable to enable repairs to be easily made to the pipes underneath. All steel below the floor surface is covered with concrete and protected from blast by cast-iron plates. A clearance of about 16 feet was provided over the railroad tracks. The bridge was built by the A. G. Tomasello & Son Company, under a contract approved January 21, 1927. The work was completed June 29, 1927, at a contract cost of \$34,851.06.

Important repair jobs were done by the day labor force of the Bridge Service as follows: Blue Hill Avenue Bridge. On both roadways new stringers were placed by the railroad and on these was laid new creosoted tongued and grooved planking on which was placed a surface of wood block paving with asphalt joints instead of the wooden sheathing formerly used.

*Fairmount Avenue Bridge, over the New York, New Haven & Hartford Railroad.*—A completely new wooden floor was built for the roadway; new stringers were placed by the railroad, new creosoted tongued and grooved planking spiked to the stringers by the city force and on this was laid wood block paving with asphalt joints, taking the place of the wooden sheathing.

*Summer Street Bridge, over Fort Point Channel.*—The wooden flooring of the roadway of both leaves of the draw span, including stringers under plank and top plank, was renewed.

*West Fourth Street Bridge, over the New York, New Haven & Hartford Railroad.*—The wooden flooring of

the two roadways was completely renewed, the railroad placing new wooden stringers and the city force constructing the under plank and wearing surface.

*Granite Avenue Bridge.*

The care and control of this bridge is vested in a commission consisting of the Mayor of the City of Boston and the chairman of the Board of Selectmen of the town of Milton.

One half the expense of maintenance is paid by the County of Suffolk and one half by the town of Milton. Chapter 58 of the Acts of 1915 provides for this.

The wooden flooring of the bridge should be completely renewed. The steel should be completely repainted.

The Milton approach of this bridge keeps crowding forward to the draw crack and it is going to be a question of time when something radical will have to be done to keep the draw span free in hot weather so that it can be operated.

*Marginal Street Sidewalk, East Boston.*

June 21 a contract was approved with Edward J. McHugh of East Boston for placing filling, slope paving and building a wire fence in place of an old collapsed bulkhead about 250 feet long, on Marginal street, near Jeffries Point. This work was under the supervision of this division for the Highway Division and was completed July 22. The contract price for the work was \$3,581.07.

*Albany Street Wharf.*

September 9 a contract was approved with Walsh & Co. for general repairs to this station. New timber was placed on the ramps and platform, the lower platform was replaced by filling surface with granite block paving, two short concrete retaining walls built and other miscellaneous work done. The contract price was \$11,855.30. The work was completed October 18 and was done under the supervision of this division for the Sanitary Division of the Public Works Department.

*Deer Island Steamboat Wharf.*

August 1 a contract was approved with the Rendle Corporation for repairing this wharf. The work consisted of renewing decayed piling and timber work,

moving the landing drop and machinery and constructing new pile spring fenders. The contract was completed December 1. The contract price for the work was \$7,168.68. This work was done under the supervision of this division for the Penal Institutions Department.

*Fireboat Wharf at Northern Avenue.*

A contract was approved with the Franklin Engineering Company May 26 for repairing the wharf and slip for the fireboat Engine 44 of the Fire Department. Some old piles and timber work were renewed. The payment to the contractor was \$2,041. The work was done under the supervision of this division for the Fire Department and was completed June 23.

*Fort Hill Wharf.*

July 8 a contract was approved with Walsh & Co. for repairing this station. Foundation piling was strengthened, new ramps built, new windows installed and other miscellaneous repairs made. The contractors were paid \$11,699.85 for the work which was completed December 27. This work was done under the supervision of this division for the Sanitary Division of the Public Works Department.

## FERRY SERVICE.

The following steam ferryboats are in commission:

| Name.                        | When<br>Built. | Type.     | Length.       | Gross<br>Tonnage. |
|------------------------------|----------------|-----------|---------------|-------------------|
| Noddle Island (rebuilt)..... | 1921           | Propeller | 174 ft. 5 in. | 564               |
| General Sumner.....          | 1900           | "         | 164 " 3 "     | 450               |
| John H. Sullivan.....        | 1912           | "         | 172 " 3 "     | 527               |
| Lieutenant Flaherty.....     | 1921           | "         | 174 "         | 727               |
| Ralph J. Palumbo.....        | 1921           | "         | 174 "         | 755               |
| Charles C. Donoghue.....     | 1926           | "         | 174 " 4 in.   | 756.77            |
| Daniel A. MacCormack.....    | 1926           | "         | 174 " 4 "     | 756.77            |

Two of these boats, the "Noddle Island" and the "General Sumner," should be replaced by new steel boats as they are not suitable to handle the existing traffic.

A contract with the Richard T. Green Company for repairing the ferryboats "Charles C. Donoghue" and "Daniel A. MacCormack" was approved September 20, 1927. The amount paid under the contract was \$9,532.20. The hulls of the boats were cleaned and painted, some rivets repaired, some welding done on the propellers and some minor repairs made.

On February 24 two of the ferryboats were sold at auction, the "Hugh O'Brien" and the "Governor Russell." The "Hugh O'Brien" was sold for \$1,600 and the "Governor Russell" was sold for \$15,000.

### "LIEUTENANT FLAHERTY." JANUARY 27, 1927.

A contract with the Richard T. Green Company for repairs to the hull and equipment of the "Lieutenant Flaherty" was approved January 27, 1927. Rivets were repaired or replaced as necessary, the hull cleaned and painted, main engines and auxiliaries adjusted and a new turbine generator installed. The work was completed March 10, 1927, at a contract cost of \$5,367.80.

### "NODDLE ISLAND."

A contract with the Atlantic Works for repairing the hull, etc., of the ferryboat "Noddle Island" was approved January 7, 1927, as the ends of the boat were

sagging, the concrete ballast was removed, repairs made to the hull, new telegraph connections installed, the hull cleaned and painted, the main shaft lined up and some other repairs made to the engines and hull. The contract cost was \$9,968.59 and was completed March 9, 1927.

A contract with Richard T. Green Company for repairs to the "Ralph J. Palumbo" was approved April 8, 1927. Rivets and seams were repaired, the hull cleaned and painted, the ends repaired, a new turbine generator installed, some machine repairs made, and one rudder repaired. The amount paid under the contract was \$8,200.40.

A contract with the Bethlehem Shipbuilding Corporation, Ltd., for furnishing and installing new boilers in the ferryboat "John H. Sullivan," was approved June 16, 1927. The amount paid on the contract was \$28,895. The work consisted in removing the existing boilers, building and installing two single end Scotch marine boilers complete with steam drum, furnishing and installing a new air pump, and furnishing and installing two new steam steering engines. The new boilers complied with the requirements of the American Bureau of Shipping.

A contract with the Bethlehem Shipbuilding Corporation, Ltd., for repairing the ferryboat "General Sumner" was approved June 22, 1927. The amount paid under the contract was \$9,190. The work consisted chiefly in cleaning and painting the hull and superstructure, furnishing and installing a new tail shaft, making some repairs to frames and planking of hull, and overhauling some of the machinery.

A contract with the Atlantic Works for repairing bronze propeller blades was approved May 6, 1927. Six blades were recast. Cost, \$930.

Another contract was approved with the Atlantic Works on November 15, 1927, and six more blades were recast. Cost, \$906.

A contract with W. H. Ellis & Son Company for repairing piers at the North and South Ferries was approved October 11, 1927.

The amount paid on the contract was \$22,620.

The outer half of the middle pier, North Ferry, Boston, was rebuilt, and repairs made to all the other piers with the exception of the North Pier, North Ferry, East Boston. New piles were driven where needed



in place of old ones, new oak girders placed as necessary and miscellaneous repairs made.

A contract with J. Edward Ogden Company was approved March 18, 1927, for building an electrically operated ferry bridge with accompanying mechanism at the North Ferry, East Boston. This bridge is of the same type as described in the annual report of 1924. The amount of the contract was \$140,500.

A contract with W. H. Ellis & Son Company was approved March 22, 1927, for building foundations for the new ferry bridge. Two concrete piers supported on piles were built to carry the towers at the outer end of the bridge and a spread footing of reinforced concrete constructed to carry the inner end. The amount paid under the contract for the foundations was \$26,789.

At the headhouse, North Ferry, Boston side, a new gas boiler was installed for heating purposes. The heating equipment was entirely renewed. A new ceiling was erected to cut down the amount of radiation required and the building is being heated far better than formerly and with much less cost.

Yours respectfully,

JOHN E. CARTY,  
*Division Engineer.*

## BRIDGE SERVICE.

## FINANCIAL STATEMENT, 1927.

*Expenditures from Maintenance Appropriation.*

|  |              |              |
|--|--------------|--------------|
| Boston bridges . . . . .               | \$452,916 60 |              |
| Boston and Cambridge bridges . . . . . | 16,496 35    |              |
|  | <hr/>        | \$469,412 95 |

*Total Expenditures.*

|  |              |              |
|--|--------------|--------------|
| From maintenance appropriation . . . . . | \$469,412 95 |              |
| From special appropriations . . . . .    | 233,637 77   |              |
|  | <hr/>        | \$703,050 72 |

## EXPENDITURES ON BOSTON BRIDGES.

## (1.) Administration:

## Salaries:

|                                   |            |             |
|-----------------------------------|------------|-------------|
| Division engineer . . . . .       | \$3,750 00 |             |
| Supervisor . . . . .              | 3,258 33   |             |
| Engineers and draughts-           |            |             |
| men . . . . .                     | 31,256 29  |             |
| Clerk . . . . .                   | 2,100 00   |             |
| Inspectors . . . . .              | 4,192 30   |             |
| Medical inspector . . . . .       | 200 00     |             |
| Foreman . . . . .                 | 2,258 05   |             |
| Veterans' pensions . . . . .      | 4,260 76   |             |
| Holiday . . . . .                 | 6,757 07   |             |
| Vacations . . . . .               | 1,955 84   |             |
| Injured employees . . . . .       | 214 28     |             |
| Printing, postage and sta-        |            |             |
| tionery . . . . .                 | 1,052 16   |             |
| Travelling expense . . . . .      | 273 78     |             |
| Telephone and telegrams . . . . . | 43 15      |             |
| Engineers supplies and in-        |            |             |
| struments . . . . .               | 174 04     |             |
| Repairing instruments . . . . .   | 100 15     |             |
| Typewriter inspection . . . . .   | 32 00      |             |
| Office supplies . . . . .         | 140 36     |             |
| Blueprint room . . . . .          | 216 63     |             |
|                                   | <hr/>      | \$62,235 19 |



## (2.) Yard and Stockroom:

## Yard:

|                                       |            |
|---------------------------------------|------------|
| Clerk, janitor and watchmen . . . . . | \$3,190 97 |
| Travelling expense . . . . .          | 242 90     |
| Tools, new . . . . .                  | 966 88     |
| Tools, repaired . . . . .             | 552 62     |
| Telephone . . . . .                   | 235 63     |
| Repairing buildings . . . . .         | 552 81     |
| New tool houses . . . . .             | 680 47     |
| Supplies. . . . .                     | 299 83     |

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\$6,722 11

## Stockroom:

|                              |                |
|------------------------------|----------------|
| Stock purchased . . . . .    | \$11,019 17    |
| Stock used . . . . .         | 13,368 60      |
| Decrease in stock, . . . . . | <hr/> 2,349 43 |

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\$4,372 68

*Automobiles, Trucks and Compressor.*

|   | Truck,<br>B-1. | Truck,<br>B-2. | Auto,<br>B-3.* | Auto,<br>B-4.* | Auto,<br>B-5. | Compressor,<br>B-6. | Total.      |
|---|----------------|----------------|----------------|----------------|---------------|---------------------|-------------|
| Cost, new. . . . .                          |                | \$3,225 00     | \$1,330 00     |                | \$1,300 00    |                     | \$5,855 00  |
| Chauffeurs' wages. . . . .                  |                |                |                | \$1,642 01     | 1,244 41      |                     | 2,886 42    |
| Storage. . . . .                            |                |                |                |                | 20 00         |                     | 20 00       |
| Repairs. . . . .                            | \$511 30       | 47 66          | 234 13         | 387 36         | 186 21        | \$3 00              | 1,369 66    |
| Supplies. . . . .                           | 24 20          | 54 25          | 55 88          | 3 87           | 41 87         |                     | 180 07      |
| Tires and tubes (new and repaired). . . . . | 407 08         | 149 77         | 65 40          | 67 01          | 162 02        |                     | 851 28      |
| Gasolene and oil. . . . .                   | 248 50         | 262 08         | 222 72         | 211 23         | 353 63        | 80 95               | 1,379 11    |
| Registration. . . . .                       | 2 00           | 4 00           | 10 00          | 10 00          | 17 00         | 4 00                | 47 00       |
| Equipment. . . . .                          |                | 286 50         |                |                |               | 282 68              | 569 18      |
| Totals. . . . .                             | \$1,193 08     | \$4,029 26     | \$1,918 13     | \$2,321 48     | \$3,325 14    | \$370 63            | \$13,157 22 |

\* Auto B-3 was used by foreman and B-4 by supervisor until December 27, 1927, when B-4 was transferred to foreman and a new auto purchased for supervisor and numbered B-3.

*Tide Water Bridges.*

| BRIDGES.               | Drawtenders' Salaries. | Mechanics' Wages. | Material.   | Repair Bills. | Supplies.   | Total.       |
|------------------------|------------------------|-------------------|-------------|---------------|-------------|--------------|
| Broadway.....          | \$16,363 66            | \$463 35          | \$81 81     | \$1,224 14    | \$272 04    | \$18,405 00  |
| Charlestown.....       | 22,455 19              | 1,676 43          | 1,983 92    | 2,000 86      | 494 65      | 28,611 05    |
| Chelsea North.....     | 18,728 93              | 3,257 01          | 1,313 07    | 3,851 34      | 1,496 07    | 28,646 42    |
| Chelsea South.....     | 18,769 59              | 390 30            | .....       | 966 81        | 1,170 12    | 21,296 82    |
| Chelsea Street.....    | 16,381 04              | 1,467 14          | 581 75      | 1,005 09      | 349 78      | 19,784 80    |
| Congress Street.....   | 16,779 63              | 803 45            | 568 41      | 1,815 10      | 1,184 24    | 21,150 83    |
| Dorchester Avenue..... | 16,340 66              | 1,333 30          | 473 99      | 857 07        | 372 32      | 19,377 34    |
| Dover Street.....      | 16,376 74              | 2,339 90          | 1,028 81    | 1,652 16      | 292 10      | 21,689 71    |
| L Street*.....         | 16,382 94              | 1,345 71          | 365 51      | 520 87        | 293 64      | 18,908 07    |
| Malden.....            | 16,760 71              | 1,809 13          | 878 96      | 1,250 04      | 809 85      | 21,508 69    |
| Meridian Street.....   | 16,689 46              | 1,024 40          | 379 25      | 1,222 48      | 398 95      | 19,714 54    |
| Northern Avenue.....   | 18,935 89              | 4,375 01          | 7,076 72    | 6,877 08      | 5,044 76    | 42,309 46    |
| Summer Street.....     | 16,846 70              | 3,520 26          | 6,413 29    | 1,190 95      | 358 84      | 28,330 04    |
| Warren.....            | 17,139 32              | 3,998 02          | 1,188 81    | 1,497 47      | 882 00      | 24,705 62    |
| Totals.....            | \$244,950 46           | \$27,803 41       | \$22,334 30 | \$25,931 46   | \$13,419 36 | \$334,438 39 |

\* Now Summer Street over Reserved Channel.

*Repairs on Inland Bridges.*

| BRIDGES.  | Labor and Material. |
|---|---------------------|
| Albany Street.....                                  | \$397 14            |
| Allston Street.....                                 | 196 82              |
| A Street Stairs.....                                | 123 68              |
| Austin Street — Prison Point.....                   | 22 34               |
| Arlington Street.....                               | 981 38              |
| Babson Street.....                                  | 53 33               |
| Beacon Street, over Boston & Albany Railroad.....   | 38 99               |
| Bennington Street.....                              | 31 45               |
| Berkeley Street.....                                | 89 44               |
| Blue Hill Avenue.....                               | 5,504 49            |
| Boston Street, over railroad.....                   | 116 28              |
| Boylston Street, over Boston & Albany Railroad..... | 933 91              |
| B Street Stairs.....                                | 174 13              |
| Brooks Street Stairs.....                           | 675 00              |
| Carried forward.....                                | \$9,338 38          |

*Repairs on Inland Bridges.—Continued.*

| BRIDGES.   | Labor<br>and<br>Material. |
|--|---------------------------|
| <i>Brought forward</i> .....   | \$9,338 38                |
| Byron Street.....  | 3 72                      |
| C Street Stairs.....   | 39 55                     |
| Cambridge Bridge.....  | 1 20                      |
| Cambridge Street, Allston.....                                       | 17 94                     |
| Central Avenue.....  | 139 65                    |
| Chelsea Street, over viaduct.....                                    | 190 00                    |
| Columbus Avenue.....   | 211 68                    |
| Dana Avenue.....   | 427 83                    |
| Dartmouth Street.....  | 300 00                    |
| Dorchester Avenue, over railroad.....                                | 118 53                    |
| Everett Street.....  | 28 14                     |
| Fairmount Avenue.....  | 6,857 25                  |
| Ferdinand Street.....  | 428 62                    |
| Gove Street (Foot).....  | 439 26                    |
| Harvard Street.....  | 3 00                      |
| Huntington Avenue.....   | 65 14                     |
| Hyde Park Avenue.....  | 1 48                      |
| Jones Avenue (Foot).....   | 51 00                     |
| Massachusetts Avenue, over New York, New Haven & Hartford Railroad.. | 197 77                    |
| Massachusetts Avenue, over Boston & Albany Railroad.....             | 129 34                    |
| Metropolitan Avenue.....   | 70 67                     |
| Milton Street.....   | 270 88                    |
| Milton Lower Mills.....  | 60 00                     |
| Morton Street.....   | 73 90                     |
| Neptune Road.....  | 98 66                     |
| New Allen Street.....  | 194 20                    |
| Oakland Street.....  | 65 62                     |
| Public Landing (Northern Avenue).....                                | 390 00                    |
| Peabody Square.....  | 19 00                     |
| Redfield Street.....   | 104 04                    |
| Reservoir Road.....  | 77 07                     |
| Sprague Street.....  | 54 48                     |
| Shawmut Avenue.....  | 37 86                     |
| Southampton Street.....  | 720 34                    |
| Summer Street, over A street.....                                    | 166 41                    |
| <i>Carried forward</i> .....   | \$21,392 61               |

*Repairs on Inland Bridges.*—Concluded.

| BRIDGES.                          | Labor<br>and<br>Material. |
|-----------------------------------|---------------------------|
| <i>Brought forward</i> .....      | \$21,392 61               |
| Summer Street, over B Street..... | 759 06                    |
| Summer Street, over C Street..... | 2 10                      |
| Stuart Street.....                | 24 00                     |
| Toll Gate Way (Foot).....         | 232 55                    |
| Wadsworth Street.....             | 229 26                    |
| West Fourth Street.....           | 7,451 61                  |
| West Rutland Square (Foot).....   | 19 00                     |
| Winthrop.....                     | 37 20                     |
| Cleaning Bridges.....             | 3,480 00                  |
| Snow.....                         | 5,085 23                  |
| Total.....                        | \$38,712 62               |

## SUMMARY OF EXPENDITURES.

|  |                     |
|--|---------------------|
| Administration . . . . .                     | \$62,235 19         |
| Yard and stockroom . . . . .                 | 4,372 68            |
| Automobiles, trucks and compressor . . . . . | 13,157 72           |
| Tide water bridges . . . . .                 | 334,438 39          |
| Inland bridges . . . . .                     | 38,712 62           |
| Total . . . . .                              | <u>\$452,916 60</u> |

## SPECIAL APPROPRIATIONS.

## BRIDGES, REPAIRS, ETC.

## BLUE HILL AVENUE BRIDGE.

|                    |            |
|--------------------|------------|
| Material . . . . . | \$7,388 96 |
|--------------------|------------|

## BROOKS STREET STAIRS.

|                                       |                 |
|---------------------------------------|-----------------|
| Repair bills . . . . .                | \$468 95        |
| Transit Department pay roll . . . . . | 1,509 60        |
|                                       | <u>1,978 55</u> |

## CHARLESTOWN BRIDGE.

|                                       |                    |
|---------------------------------------|--------------------|
| Steves Lacios Company . . . . .       | \$1,621 81         |
| Paint . . . . .                       | 105 93             |
| The Boston Bridge Works, Inc. . . . . | 1,442 98           |
| Maurice M. Devine . . . . .           | 9,000 83           |
| Advertising . . . . .                 | 7 50               |
| Traveling expense . . . . .           | 4 00               |
| Transit Department pay roll . . . . . | 340 80             |
|                                       | <u>12,523 85</u>   |
| <i>Carried forward</i> . . . . .      | <u>\$21,891 36</u> |

Brought forward . . . . . \$21,891 36

CHARLESTOWN BRIDGE STOREHOUSE, PAVING APPROACHES TO.

S. J. Tomasello . . . . . 384 02

CHELSEA BRIDGE NORTH.

|                                       |            |           |
|---------------------------------------|------------|-----------|
| The Boston Bridge Works, Inc. . . . . | \$1,932 79 |           |
| Maurice M. Devine . . . . .           | 9,708 65   |           |
| The Rendle Corporation . . . . .      | 16,531 52  |           |
| Repair bills . . . . .                | 700 72     |           |
| Advertising . . . . .                 | 23 25      |           |
| Photographs . . . . .                 | 30 00      |           |
| Traveling expense . . . . .           | 22 56      |           |
| Engineering . . . . .                 | 584 95     |           |
|                                       |            | 29,534 44 |

CHELSEA BRIDGE SOUTH.

The Boston Bridge Works, Inc. . . . . 1,939 12

CONGRESS STREET BRIDGE.

|  |         |        |
|--|---------|--------|
| R. H. Baker & Co., Inc. . . . .        | \$89 55 |        |
| C. & R. Construction Company . . . . . | 790 36  |        |
|  |         | 879 91 |

CHELSEA STREET, OVER BOSTON & MAINE RAILROAD.

Buck-MacDonald Company . . . . . 329 71

DORCHESTER AVENUE BRIDGE.

|                                     |            |          |
|-------------------------------------|------------|----------|
| W. H. Ellis & Son Company . . . . . | \$1,625 87 |          |
| Maurice M. Devine . . . . .         | 2,396 38   |          |
| Advertising . . . . .               | 8 00       |          |
|                                     |            | 4,030 25 |

DOVER STREET BRIDGE.

|                                       |          |        |
|---------------------------------------|----------|--------|
| Repair bills . . . . .                | \$196 49 |        |
| Transit Department pay roll . . . . . | 97 20    |        |
|                                       |          | 293 69 |

EVERETT STREET BRIDGE.

|                           |            |          |
|---------------------------|------------|----------|
| V. James Grande . . . . . | \$8,150 00 |          |
| Advertising . . . . .     | 8 80       |          |
|                           |            | 8,158 80 |

MERIDIAN STREET BRIDGE.

|                                  |            |          |
|----------------------------------|------------|----------|
| The Rendle Corporation . . . . . | \$8,679 28 |          |
| Advertising . . . . .            | 8 00       |          |
| Traveling expense . . . . .      | 5 10       |          |
|                                  |            | 8,692 38 |

NORTHERN AVENUE BRIDGE.

|                                       |            |           |
|---------------------------------------|------------|-----------|
| Maurice M. Devine . . . . .           | \$7,300 00 |           |
| W. H. Ellis & Son Company . . . . .   | 4,842 12   |           |
| Advertising . . . . .                 | 15 50      |           |
| Repair bills . . . . .                | 17 36      |           |
| New pump . . . . .                    | 573 00     |           |
| Transit Department pay roll . . . . . | 62 00      |           |
| Engineering . . . . .                 | 467 96     |           |
|                                       |            | 13,277 94 |

Carried forward . . . . . \$89,411 62

*Brought forward* . . . . . \$89,411 62

SUMMER STREET BRIDGE, OVER FORT POINT CHANNEL.

|  |          |        |
|--|----------|--------|
| C. & R. Construction Company . . . . . | \$507 38 |        |
| W. H. Ellis & Son Company . . . . .    | 124 77   |        |
| Advertising . . . . .                  | 7 75     |        |
| Transit Department pay roll . . . . .  | 298 70   |        |
|  |          | 938 60 |

SUMMER STREET BRIDGE, OVER RESERVED CHANNEL.

|                                  |            |          |
|----------------------------------|------------|----------|
| The Rendle Corporation . . . . . | \$3,906 22 |          |
| Advertising . . . . .            | 5 40       |          |
| License . . . . .                | 1 00       |          |
|                                  |            | 3,912 42 |

WARREN BRIDGE.

|  |            |           |
|--|------------|-----------|
| The Rendle Corporation . . . . .                             | \$7,176 30 |           |
| Motors and control . . . . .                                 | 2,646 83   |           |
| Installing motors . . . . .                                  | 943 00     |           |
| Power connection with Boston Elevated Rail-<br>way . . . . . | 103 53     |           |
| Guard rail around motors . . . . .                           | 87 00      |           |
| New heater . . . . .   | 850 00     |           |
|  |            | 11,806 66 |

WEST FOURTH STREET BRIDGE.

|                             |            |          |
|-----------------------------|------------|----------|
| Lumber . . . . .            | \$8,257 65 |          |
| Iron . . . . .              | 31 77      |          |
| Traveling expense . . . . . | 3 60       |          |
| Tools . . . . .             | 48 00      |          |
|                             |            | 8,341 02 |

A STREET STAIRS.

|                                       |        |
|---------------------------------------|--------|
| Transit Department pay roll . . . . . | 340 80 |
|---------------------------------------|--------|

ALBANY STREET BRIDGE.

|                                       |       |
|---------------------------------------|-------|
| Transit Department pay roll . . . . . | 81 60 |
|---------------------------------------|-------|

ARLINGTON STREET BRIDGE.

|                        |          |
|------------------------|----------|
| Repair bills . . . . . | 1,480 63 |
|------------------------|----------|

B STREET STAIRS.

|                                       |        |
|---------------------------------------|--------|
| Transit Department pay roll . . . . . | 340 80 |
|---------------------------------------|--------|

BERKELEY STREET BRIDGE.

|                        |        |
|------------------------|--------|
| Repair bills . . . . . | 147 75 |
|------------------------|--------|

BROADWAY BRIDGE.

|                   |        |
|-------------------|--------|
| Repairs . . . . . | 370 13 |
|-------------------|--------|

CHELSEA STREET BRIDGE.

|                       |      |
|-----------------------|------|
| Advertising . . . . . | 9 90 |
|-----------------------|------|

COLUMBUS AVENUE BRIDGE.

|                                       |         |        |
|---------------------------------------|---------|--------|
| Repair bills . . . . .                | \$20 79 |        |
| Flagman . . . . .                     | 42 11   |        |
| Photographs . . . . .                 | 33 00   |        |
| Transit Department pay roll . . . . . | 32 80   |        |
|                                       |         | 128 70 |

*Carried forward* . . . . . \$117,310 63

|                                       |                     |
|---------------------------------------|---------------------|
| <i>Brought forward</i> . . . . .      | \$117,310 63        |
| HUNTINGTON AVENUE BRIDGE.             |                     |
| Transit Department pay roll . . . . . | 48 80               |
|                                       | <u>\$117,359 43</u> |

|  |                    |
|--|--------------------|
| BROADWAY BRIDGE, SOUTH BOSTON.                   |                    |
| The Boston Bridge Works, Inc. . . . .            | \$68,584 20        |
| Inspection of steel . . . . .                    | 118 72             |
| Advertising . . . . .                            | 23 75              |
| Traveling expense . . . . .                      | 124 35             |
| Material . . . . .                               | 21 58              |
| Waterproofing and plastic on car rails . . . . . | 186 13             |
| Removing and installing car service . . . . .    | 186 75             |
| Engineers' supplies . . . . .                    | 31 05              |
| Engineering . . . . .                            | 2,708 74           |
|  | <u>\$71,985 27</u> |

|                              |                   |
|------------------------------|-------------------|
| TREMONT STREET BRIDGE.       |                   |
| Adjusting pavement . . . . . | \$643 50          |
| Foundation pier . . . . .    | 460 09            |
| Rail guards . . . . .        | 407 99            |
| Grillage beams . . . . .     | 110 72            |
| New lights . . . . .         | 314 90            |
| Installing lights . . . . .  | 794 06            |
| Painting lights . . . . .    | 22 00             |
| Traveling expense . . . . .  | 2 80              |
| Engineering . . . . .        | 416 20            |
|                              | <u>\$3,172 26</u> |

|                                     |                    |
|-------------------------------------|--------------------|
| WEST NEWTON STREET BRIDGE.          |                    |
| A. G. Tomasello & Son, Inc. . . . . | \$34,851 06        |
| Inspection of steel . . . . .       | 98 49              |
| Advertising . . . . .               | 23 75              |
| Setting plates . . . . .            | 33 28              |
| Traveling expense . . . . .         | 14 90              |
| Engineers' supplies . . . . .       | 31 84              |
| Engineering . . . . .               | 4,298 19           |
|                                     | <u>\$39,351 51</u> |

|                             |                |
|-----------------------------|----------------|
| MORTON STREET IMPROVEMENTS. |                |
| Photographs . . . . .       | <u>\$44 00</u> |

|  |                 |
|--|-----------------|
| OAKLAND AND ASHLAND STREETS, IMPROVEMENTS. |                 |
| Photographs . . . . .                      | \$33 00         |
| Engineering . . . . .                      | 644 37          |
|  | <u>\$677 37</u> |

|                            |                   |
|----------------------------|-------------------|
| RIVER STREET CONSTRUCTION. |                   |
| Test holes . . . . .       | \$195 43          |
| Photographs . . . . .      | 33 00             |
| Engineering . . . . .      | 821 50            |
|                            | <u>\$1,049 93</u> |



## Expenditures from Special Appropriations, 1927.

|   | Balance<br>from<br>1926. | Total Credits<br>Including<br>Balances<br>Carried<br>Over and<br>Transfers. | Expended<br>During Year<br>1927. | Balances<br>Unexpended<br>December 31,<br>1927. |
|---|--------------------------|---|----------------------------------|---|
| Beacon Street Bridge, rebuilding.....           | \$4,115 37               | \$4,115 37  | .....                            | \$4,115 37                                      |
| Bridges, repairs, etc.....                      | 43,436 32                | 143,436 32  | \$117,359 43                     | 26,076 89                                       |
| Broadway Bridge, South Boston.....              | 67,709 36                | 77,709 36   | 71,985 27                        | 5,724 09  |
| Cambridge Street Bridge, rebuilding.....        | 16,894 92                | 16,894 92   | .....                            | 16,894 92                                       |
| Congress Street Bridge, plans, etc.....         | 13,882 04                | 13,882 04   | .....                            | 13,882 04                                       |
| Dartmouth Street Bridge.....                    | 2,746 14                 | 2,746 14  | .....                            | 2,746 14  |
| * Massachusetts Avenue Bridge                   | 14,096 01                | 4,096 01  | .....                            | 4,096 01  |
| Tremont Street Bridge.....                      | 53,224 93                | 53,224 93   | 3,172 26                         | 50,052 67                                       |
| West Newton Street Bridge....                   | 44,776 16                | 44,776 16   | 39,351 51                        | 5,424 65  |
| † Morton Street Improvements, .....             | .....                    | .....   | 44 00                            | .....   |
| † Oakland and Ashland Streets Improvements..... | .....                    | .....   | 677 37                           | .....   |
| † River street reconstruction...                | .....                    | .....   | 1,049 93                         | .....   |
|   | \$260,881 25             | \$360,881 25  | \$233,639 77                     | \$129,012 78                                    |

\* \$10,000 transferred to Broadway Bridge, South Boston.

† See also Paving Service.

## Bridge Openings, 1927.

|                        | STEAMERS. |        |        | SAILING VESSELS. |        |        | TUGS.  |        |        | BARGES. |        |        | ALL OTHERS. |        |        | TOTAL NUMBER OF VESSELS. |        |        | Total Number of Cargoes. | Total Number of Openings. |
|------------------------|-----------|--------|--------|------------------|--------|--------|--------|--------|--------|---------|--------|--------|-------------|--------|--------|--------------------------|--------|--------|--------------------------|---------------------------|
|                        | Day.      | Night. | Total. | Day.             | Night. | Total. | Day.   | Night. | Total. | Day.    | Night. | Total. | Day.        | Night. | Total. | Day.                     | Night. | Total. |                          |                           |
| Broadway.....          | 32        | 29     | 61     | 79               | 4      | 83     | 1,387  | 71     | 1,458  | 289     | 31     | 320    | 503         | 9      | 512    | 2,290                    | 144    | 2,434  | 482                      | 922                       |
| Charlestown.....       | 20        | .....  | 20     | 22               | 2      | 24     | 2,636  | 627    | 3,263  | 457     | 125    | 582    | 2,129       | 730    | 2,859  | 5,264                    | 1,484  | 6,748  | 1,701                    | 1,482                     |
| Chelsea North.....     | 1,414     | 153    | 1,567  | 75               | 3      | 78     | 10,575 | 901    | 11,476 | 1,687   | 163    | 1,850  | 786         | 88     | 874    | 14,537                   | 1,208  | 15,745 | 1,693                    | 6,307                     |
| Chelsea South.....     | 84        | 7      | 91     | 42               | .....  | 42     | 5,251  | 244    | 5,495  | 90      | 5      | 95     | 2,868       | 164    | 3,032  | 8,335                    | 420    | 8,755  | 1,977                    | 2,770                     |
| Chelsea Street.....    | 87        | 55     | 142    | 4                | .....  | 4      | 1,493  | 596    | 2,089  | 79      | 63     | 142    | 1,029       | 103    | 1,132  | 2,692                    | 817    | 3,509  | 740                      | 1,771                     |
| Congress Street.....   | 175       | 33     | 208    | 81               | 3      | 84     | 2,625  | 203    | 2,828  | 447     | 64     | 511    | 588         | 12     | 600    | 3,916                    | 315    | 4,231  | 752                      | 2,313                     |
| Dorchester Avenue..... | 102       | 47     | 149    | 75               | 2      | 77     | 1,410  | 49     | 1,459  | 298     | 15     | 313    | 469         | 5      | 474    | 2,354                    | 118    | 2,472  | 499                      | 1,341                     |
| Dover Street.....      | .....     | .....  | .....  | 75               | 3      | 78     | 1,406  | 61     | 1,467  | 295     | 19     | 314    | 544         | 43     | 587    | 2,320                    | 126    | 2,446  | 484                      | 1,108                     |
| * I. Street.....       | 46        | 20     | 66     | 52               | 5      | 57     | 2,188  | 70     | 2,258  | 311     | 9      | 320    | 1,251       | 44     | 1,295  | 3,848                    | 148    | 3,996  | 1,003                    | 2,746                     |
| Malden.....            | 104       | 59     | 163    | 14               | .....  | 14     | 1,011  | 48     | 1,059  | 243     | 23     | 266    | 364         | 94     | 458    | 1,736                    | 224    | 1,960  | 395                      | 1,174                     |
| Meridian Street.....   | 793       | 425    | 1,218  | 26               | 1      | 27     | 6,063  | 1,572  | 7,635  | 913     | 528    | 1,441  | 2,835       | 496    | 3,331  | 10,630                   | 3,022  | 13,652 | 1,909                    | 7,383                     |
| Northern Avenue.....   | 612       | 345    | 957    | 83               | 3      | 86     | 4,455  | 244    | 4,699  | 480     | 74     | 554    | 1,891       | 62     | 1,953  | 7,521                    | 728    | 8,249  | 1,491                    | 3,943                     |
| Summer Street.....     | 160       | 12     | 172    | 78               | 4      | 82     | 2,583  | 236    | 2,819  | 428     | 80     | 508    | 594         | 38     | 632    | 3,843                    | 370    | 4,213  | 723                      | 2,376                     |
| Warren.....            | 16        | .....  | 16     | 24               | 1      | 25     | 2,580  | 670    | 3,250  | 564     | 132    | 696    | 2,090       | 801    | 2,891  | 5,274                    | 1,604  | 6,878  | 1,623                    | 3,082                     |
| Totals.....            | 3,645     | 1,185  | 4,830  | 730              | 31     | 761    | 45,663 | 5,592  | 51,355 | 6,581   | 1,331  | 7,912  | 17,941      | 2,689  | 20,630 | 74,500                   | 10,728 | 85,228 | 15,472                   | 38,718                    |

\* Now Summer Street Bridge, over Reserved Channel.

GRANITE AVENUE BRIDGE.\*

|                         |   |   |   |                   |
|-------------------------|---|---|---|-------------------|
| Drawtenders' salaries . | . | . | . | \$2,584 64        |
| Material .              | . | . | . | 25 31             |
| Repairs .               | . | . | . | 56 30             |
| Supplies .              | . | . | . | 51 06             |
|                         |   |   |   | <hr/>             |
|                         |   |   |   | <u>\$2,717 31</u> |

\* Maintained jointly by County of Suffolk and town of Milton.

Granite Avenue Bridge Draw Openings from January 1 to December 31, 1927.

| OPENINGS. | STEAMERS. |   |        | SAILING VESSELS. |   |        | TUGS.  |       |        | BARGES. |       |        | ALL OTHERS. |    |        | TOTAL NUMBER OF VESSELS. |    |        | Total Number of Carries. | Total Number of Openings. |
|-----------|-----------|---|--------|------------------|---|--------|--------|-------|--------|---------|-------|--------|-------------|----|--------|--------------------------|----|--------|--------------------------|---------------------------|
|           | Day.      |   | Total. | Day.             |   | Total. | Day.   |       | Total. | Day.    |       | Total. | Day.        |    | Total. | Day.                     |    | Total. |                          |                           |
|           | Night.    |   |        | Night.           |   |        | Night. |       |        | Night.  |       |        | Night.      |    |        | Night.                   |    |        |                          |                           |
|           | 13        | 1 | 14     | 6                | 1 | 7      | 199    | ..... | 199    | 86      | ..... | 86     | 93          | 26 | 119    | 397                      | 28 | 425    | 43                       | 303                       |

## FERRY SERVICE.

### FINANCIAL STATEMENT FOR THE YEAR ENDING DECEMBER 31, 1927.

#### 1. Receipts.

|   |                    |
|---|--------------------|
| Total cash receipts during the year . . . . .           | \$89,242 37        |
| Cash in hands of tollmen at beginning of year . . . . . | 200 00             |
|   | <u>\$89,442 37</u> |
| Cash paid over to City Collector . . . . .              | \$89,242 37        |
| Cash in hands of tollmen December 31, 1927 . . . . .    | 200 00             |
|   | <u>\$89,442 37</u> |

#### 2. Appropriations and Expenditures.

|  |                   |
|--|-------------------|
| Received from annual appropriations for Ferry Service . . . . .            | \$547,038 06      |
| Transferred from Bridge Service . . . . .                                  | \$5,238 86        |
| Transferred from Lighting Service . . . . .                                | 51 89             |
|  | <u>5,290 75</u>   |
|  | \$552,328 81      |
| Unexpended balances from special appropriations, January 1, 1927 . . . . . | \$368,044 01      |
| Appropriation from taxes for ferry improvements, etc. . . . .              | 25,000 00         |
|  | <u>393,044 01</u> |
|  | \$945,372 82      |
| Total expenditures . . . . .   | <u>706,413 66</u> |
| Unexpended balances of special appropriations, December 31, 1927 . . . . . | * \$238,959 16    |

#### 3. Result of Operations for the Year.

|   |                     |
|---|---------------------|
| Receipts for the year (net income) . . . . .            | \$89,242 37         |
| Ordinary expenses (maintenance appropriation) . . . . . | \$547,038 06        |
| Interest paid on ferry debt . . . . .                   | 55,007 50           |
|   | <u>\$602,045 56</u> |
| <i>Carried forward</i> . . . . .                        | <u>\$89,242 37</u>  |

\* Of this amount \$50,000 in loans has been authorized, but not issued.

|  |              |                |
|--|--------------|----------------|
| <i>Brought forward</i> . . . . .                   | \$602,045 56 | \$89,242 37    |
| Depreciation on ferryboats . . . . .               | 80,114 23    |                |
| Decrease in value of machinery and tools . . . . . | 518 93       |                |
| Decrease in value of supplies on hand . . . . .    | 252 72       |                |
|  | <hr/>        |                |
|  | \$682,931 44 |                |
| Increase in value of fuel on hand . . . . .        | 1,420 10     |                |
|  | <hr/>        |                |
| Net outgo for the year . . . . .                   |              | 681,511 34     |
| Net loss for the year . . . . .                    |              | <hr/>          |
|  |              | * \$592,268 97 |

---

\* Does not include expenditures for special appropriations.

## Balance Sheet.

End of Fiscal Year, December 31, 1927.

| ASSETS.  | LIABILITIES.                                       |
|--|--|
| AVAILABLE ASSETS:  | CURRENT LIABILITIES:                               |
| Cash in hands of tollmen at close of year.....   | None.  |
| Inventory of supplies, viz.:   |  |
| Fuel.....  | \$200 00   |
| Supplies for maintenance.....  | 5,159 70   |
| Rents receivable.....  | 7,598 87   |
|  | 607 84   |
| Total available assets.....  | \$13,566 41  |
| CONTINGENT ASSETS:   | CONTINGENT LIABILITIES:                            |
| City Treasury.....   | Appropriations account.....                        |
|  | * \$238,959 16                                     |
| FIXED ASSETS:  | FIXED LIABILITIES:                                 |
| Real estate, land and buildings <sup>1</sup> .....   | Capital of the city invested in the ferries, viz.: |
| Ferryboats <sup>2</sup> .....  | Total expenditures of all kinds for sixty-         |
| Machinery, tools, etc.....   | nine years, including interest on ferry            |
|  | debt..... \$21,631,133 82                          |
| Total tangible assets.....   | Less total receipts.....                           |
| Deficiency or loss by operation and maintenance of the ferries for sixty-nine years to date, | 8,280,404 04                                       |
|  | 13,350,729 78                                      |
|  | \$13,589,688 94                                    |

\* Includes \$50,000 authorized, but not issued.

|   |                       |   |
|---|-----------------------|---|
| <sup>1</sup> Original purchase.....                               | \$276,375 00          | <sup>2</sup> Assessors' figures.                      |
| New buildings, drops, slips, cost to 1913....                     | 607,523 64            | <sup>3</sup> Total cost to date, per ferry books..... |
| Land, Lincoln's Wharf, cost to 1887.....                          | 3,562 82              | Less boats sold, depreciated or destroyed...          |
| Land, Battery Wharf, cost, 1893.....                              | 10,000 00             | \$1,190,174 04  |
| New drops, both ferries, cost from 1923 to December 31, 1927..... | \$899,461 16          |   |
|   | 152,322 95            |   |
|   | <u>\$1,051,784 11</u> |   |

## Comparative Balance Sheets at the Close of Each Year.

|  | January 31,<br>1924.   | January 31,<br>1925.   | December 31,<br>1925.  | December 31,<br>1926.  | December 31,<br>1927.  |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|
| <i>Assets.</i>   |                        |                        |                        |                        |                        |
| Cash, tollmen's capital.....   | \$200 00               | \$200 00               | \$200 00               | \$200 00               | \$200 00               |
| Rents receivable.....  | 392 35                 | 489 21                 | 592 34                 | 583 34                 | 607 84                 |
| Fuels and supplies in stock.....   | 23,097 11              | 20,088 22              | 18,366 96              | 11,589 19              | 12,758 57              |
| City Treasurer (balance of appropriation).....                           | 113,072 86             | 217,676 36             | 1,020,064 26           | 368,044 01             | 238,959 16             |
| Ferryboats (less depreciation).....                                      | 914,754 98             | 857,439 71             | 800,124 44             | 1,270,288 27           | 1,190,174 04           |
| Machinery and tools.....   | 1,624 14               | 4,163 58               | 3,747 23               | 4,634 31               | 4,670 38               |
| Real estate, land and buildings (assessors' valuation).....              | 610,100 00             | 610,100 00             | 610,100 00             | 610,100 00             | 610,100 00             |
| Total tangible assets.....   | \$1,663,241 44         | \$1,710,157 08         | \$2,453,195 23         | \$2,265,439 12         | \$2,057,469 99         |
| Cost of avenues, etc., East Boston (previous to 1871) <sup>1</sup> ..... | 315,815 68             | 315,815 68             | 315,815 68             | 315,815 68             | 315,815 68             |
| Deficiency of assets (loss).....   | 8,149,845 42           | 8,966,610 71           | 9,726,416 60           | 10,465,340 20          | 11,216,403 27          |
| Totals.....  | <u>\$10,128,902 54</u> | <u>\$10,992,583 47</u> | <u>\$12,495,427 51</u> | <u>\$13,046,595 00</u> | <u>\$13,589,688 94</u> |
| <i>Liabilities.</i>  |                        |                        |                        |                        |                        |
| Capital invested by City of Boston to date.....                          | \$10,015,829 68        | \$10,774,907 11        | \$11,475,363 25        | \$12,678,550 99        | \$13,350,729 78        |
| Appropriations account (credit balances).....                            | 113,072 86             | 217,676 36             | 1,020,064 26           | 368,044 01             | 238,959 16             |
| Total liabilities.....   | <u>\$10,128,902 54</u> | <u>\$10,992,583 47</u> | <u>\$12,495,427 51</u> | <u>\$13,046,595 00</u> | <u>\$13,589,688 94</u> |
| <i>Details of Capital Invested by the City of Boston.</i>                |                        |                        |                        |                        |                        |
| Total expenditure to date per ferry books.....                           | \$17,658,444 98        | \$18,501,559 12        | \$19,273,121 91        | \$20,540,211 31        | \$21,296,977 47        |
| Interest of debt for the year (per City Auditor's reports).....          | 44,585 00              | 41,710 00              | 38,752 50              | 50,352 50              | 55,007 50              |
| Interest, previous years, etc. (net debits, per City Auditor's reports), | 279,148 85             | 279,148 85             | 279,148 85             | 279,148 85             | 279,148 85             |
| Total expenditures.....  | <u>\$17,982,178 83</u> | <u>\$18,822,417 97</u> | <u>\$19,591,023 26</u> | <u>\$20,869,712 66</u> | <u>\$21,631,133 82</u> |
| Deduct total receipts paid to City Collector.....                        | 7,966,349 15           | 8,047,510 86           | 8,115,660 01           | 8,191,161 67           | 8,280,404 04           |
| Excess expenditures, capital.....  | <u>\$10,015,829 68</u> | <u>\$10,774,907 11</u> | <u>\$11,475,363 25</u> | <u>\$12,678,550 99</u> | <u>\$13,350,729 78</u> |

<sup>1</sup> Included in deficiency of assets in Table 4.



## Comparison of Receipts, Appropriations and Expenditures.

|  | 1923-24.    | 1924-25.    | 1925.<br>(11 months.) | 1926.       | 1927.       |
|--|-------------|-------------|-----------------------|-------------|-------------|
| <b>RECEIPTS.</b>                               |             |             |                       |             |             |
| From foot passengers (tollmen).....            | \$31,059 13 | \$27,347 91 | \$22,254 80           | \$23,087 75 | \$21,907 61 |
| From foot passes (office sales).....           | 254 40      | 280 20      | 264 70                | 361 30      | 309 90      |
| From extra passengers on teams (gatemmen)..... | 1,212 80    | 1,525 94    | 727 12                | 800 61      | 720 35      |
| From team tickets (office sales).....          | 1,621 50    | 1,947 00    | 2,026 00              | 2,307 00    | 2,753 50    |
| From strip team tickets (tollmen).....         | 15,442 00   | 13,204 50   | 11,400 50             | 12,531 00   | 12,187 00   |
| From cash fares for teams (gatemmen).....      | 41,072 74   | 35,796 62   | 30,542 28             | 35,328 46   | 35,429 77   |
| From free ferries July 4.....                  | 1 00        | 1 00        | 1 00                  | 1 00        | 1 00        |
| Total from rates.....                          | \$90,663 57 | \$80,103 17 | \$67,216 40           | \$74,417 12 | \$73,309 13 |
| From rents.....                                | 398 02      | 417 16      | 368 02                | 523 04      | 489 50      |
| From old material sold.....                    | 122 03      | 64 68       | 15 00                 | 12 00       | 68 00       |
| From other sources.....                        | 586 76      | 576 70      | 549 73                | 549 50      | * 15,375 74 |
| Total ordinary receipts.....                   | \$91,770 38 | \$81,161 71 | \$68,149 15           | \$75,501 66 | \$89,242 37 |
| <b>EXPENDITURES (ORDINARY).</b>                |             |             |                       |             |             |
| <b>Office:</b>                                 |             |             |                       |             |             |
| 1 Division engineer's salary (part).....       | \$1,250 00  | \$1,250 00  | \$833 33              | \$1,250 00  | \$1,250 00  |
| 2 General foreman and cashier.....             | 4,968 59    | 5,013 70    | 4,704 06              | 5,259 69    | 5,416 09    |
| Clerk.....                                     | 1,284 29    | 1,386 59    | 1,281 13              | 1,459 83    | 1,500 00    |
| Retired veterans' pensions.....                | 7,449 09    | 7,633 27    | 6,442 76              | 6,247 13    | 4,161 53    |
| Retired employees' pensions.....               | 3,240 00    | 2,921 00    | 2,404 00              | 2,215 00    | 1,942 00    |
| Medical inspector (part).....                  | 83 34       | 83 33       | 91 67                 | 91 67       | 100 00      |
| Stationery.....                                | 160 54      | 43 04       | 304 18                | 112 00      | 129 86      |

|  |              |              |              |              |              |
|--|--------------|--------------|--------------|--------------|--------------|
| Printing.....                              | 1,178 60     | 986 60       | 1,283 89     | 1,594 75     | 1,281 43     |
| Telephones.....                            | 246 17       | 249 52       | 237 89       | 270 02       | 279 30       |
| Advertising.....                           | 33 00        | 38 50        | 7 50         | 53 20        | 101 73       |
| Car fares.....                             | 97 35        | 88 17        | 101 45       | 109 73       | 127 26       |
| Postage.....                               | 8 00         | 4 00         | 20 00        | 4 00         | 4 00         |
| Premiums, surety companies.....            | 85 00        | 85 00        | 85 00        | 94 00        | 91 00        |
| Total office expenses.....                 | \$20,083 97  | \$19,852 72  | \$17,796 86  | \$18,791 02  | \$16,384 20  |
| Ferryboats and landings:                   |              |              |              |              |              |
| <sup>1</sup> Employees (wages).....        | \$291,878 59 | \$315,339 26 | \$302,376 44 | \$338,261 69 | \$367,640 21 |
| Fuel.....                                  | 92,904 36    | 75,278 43    | 62,388 96    | 66,738 24    | 67,637 76    |
| Teaming, weighing coal, etc.....           | 2,086 03     | 3,296 97     | 3,152 02     | 4,331 75     | 2,848 00     |
| Supplies.....                              | 15,567 00    | 22,490 54    | 15,506 25    | 17,664 04    | 17,207 55    |
| Gas.....                                   | 1,007 43     | 752 33       | 968 61       | 1,149 09     | 1,272 55     |
| Oil.....                                   | 1,769 82     | 2,543 80     | 1,125 48     | 1,857 99     | 1,877 44     |
| Electric light.....                        | 4,154 60     | 4,973 19     | 4,579 53     | 5,848 39     | 6,583 97     |
| Towing teams by electric motors.....       | 166 13       | 604 57       | 843 42       | 954 13       | 121 21       |
| Repairs of boats.....                      | 50,977 87    | 51,230 02    | 51,571 46    | 48,702 43    | 58,516 16    |
| Repairs of buildings, piers and drops..... | 13,908 12    | 24,814 05    | 9,528 99     | 9,103 14     | 9,455 95     |
| Furnishings.....                           | 255 50       | 256 00       | 326 50       | 319 25       | 427 45       |
| <sup>4</sup> Other expenditures.....       | 3,025 36     | 2,095 58     | 2,076 17     | 2,595 49     | 2,336 36     |
| Total.....                                 | \$498,684 78 | \$523,527 46 | \$472,240 69 | \$516,316 65 | \$552,328 81 |

\* Includes \$13,447.85 received from sale of ferryboat "Governor Russell" and \$1,387.85 from sale of ferryboat "Hugh O'Brien."

<sup>1</sup> Remainder paid by Bridge Service.

<sup>2</sup> Included in employees (wages) after February 1, 1916, in office books.

<sup>3</sup> Includes payment under Workmen's Compensation Act.

<sup>4</sup> Includes repairs of coal carts, medical attendance, etc.

## Comparison of Receipts, Appropriations and Expenditures.— Concluded.

|   | 1923-24.     | 1924-25.     | 1925.<br>(11 months.) | 1926.          | 1927.        |
|---|--------------|--------------|-----------------------|----------------|--------------|
| EXPENDITURES FROM SPECIAL APPROPRIATIONS.                                 |              |              |                       |                |              |
| East Boston Ferry, improvements, etc.....                                 | \$165,179 21 | \$502,726 78 | \$192,096 24          | \$151,879 78   | \$9,930 44   |
| Ferryboats, repairs, etc.....   | 172 10       |              |                       |                |              |
| Ferryboat "Noddle Island".....  |              | 8,290 30     |                       |                |              |
| Ferry improvements, etc.....  | 79,814 01    | 63,984 60    | 62,273 08             | 24,404 15      | 1,761 90     |
| East Boston Ferry, two additional boats, and other permanent improvements |              |              | 3,242 78              | 532,736 32     | 142,392 51   |
| Total expenditures, regular and special.....                              | \$743,850 10 | \$798,529 14 | \$729,852 79          | \$1,228,336 90 | \$706,413 66 |
| Balances in treasury unexpended.....                                      | 113,072 86   | 217,076 36   | 1,020,064 26          | 368,044 01     | 238,959 16   |
| APPROPRIATIONS.   |              |              |                       |                |              |
| Regular annual appropriations.....  | \$498,684 78 | \$521,688 80 | \$488,910 17          | \$533,021 57   | \$547,038 06 |
| Transfers from other sources.....   | 1 22,293 34  | 1 1,838 66   |                       |                | 1 5,290 75   |
| East Boston Ferry, improvements, etc.....                                 |              | 2 295,000 00 | 2 155,000 00          |                |              |
| Ferryboat "Noddle Island".....  | 2 81,002 23  | 4 6,721 13   |                       |                |              |
| Ferry improvements, etc.....  |              | 6 77,884 05  | 7 80,000 00           | 9 60,000 00    | 25,000 00    |
| East Boston Ferry, two additional boats.....                              |              |              | 2 825,000 00          |                |              |
|   | \$601,980 35 | \$903,132 64 | \$1,393,910 17        | \$593,021 57   | \$577,328 81 |

<sup>1</sup> Transferred from other appropriations.<sup>2</sup> Transferred from other appropriations \$31,002.93 appropriation from taxes, \$50,000.<sup>3</sup> Appropriation from loan inside debt limit, \$275,000 transferred from other appropriations, \$20,000.<sup>4</sup> Transferred from other appropriations, \$6,721.13.<sup>5</sup> Appropriation from taxes, \$60,000 transferred from other appropriations, \$17,884.05.<sup>6</sup> Loan of \$80,000 inside of debt limit transferred from other appropriations, \$75,000.<sup>7</sup> Appropriation from taxes, \$80,000.<sup>8</sup> Appropriation from loan outside of debt limit; appropriation of \$75,000 from taxes.<sup>9</sup> Appropriation from taxes, \$60,000.

## Total Expenditures Upon Ferries Since 1858-59.

|  |                 |
|--|-----------------|
| Expenditures for avenues, paving interest, etc., previous to the purchase of the ferries by the city . . . . . | \$444,101 30    |
| Purchase of the ferries, April, 1870 . . . . .   | 276,375 00      |
| Expenditures for ferryboats since April, 1870, . . . . .   | 2,178,182 01    |
| Expenditures for new buildings, piers, drops, etc. . . . .   | 1,457,143 39    |
| Expenditures for tools and fixtures (prior to 1910) . . . . .  | 14,752 46       |
| Expenditures for land from Lincoln's Wharf in 1887 . . . . .   | 5,562 52        |
| Expenditures for land from Battery Wharf in 1893 . . . . .   | 10,000 00       |
| Total expenditures on capital account . . . . .  | \$4,386,116 68  |
| Expenditures for repairs of all kinds . . . . .  | 2,348,945 84    |
| Expenditures for fuel . . . . .  | 2,663,291 87    |
| Expenditures for salaries and wages . . . . .  | 9,490,269 66    |
| Expenditures for all other purposes . . . . .  | 2,742,509 77    |
|  | <hr/>           |
|  | \$21,631,133 82 |

## Total Receipts from Ferries Since 1858-59.

|   |                            |
|---|----------------------------|
| Receipts from rents, etc., previous to purchase of ferries . . . . .    | \$29,588 56                |
| Receipts from ferry tolls since purchase of ferries . . . . .           | 7,948,377 20               |
| Receipts from rents since purchase of ferries . . . . .                 | 71,671 76                  |
| Receipts from sale of ferryboats . . . . .                              | 167,403 14                 |
| Receipts from all other sources, per ferry books . . . . .              | 32,828 53                  |
| Receipts from all other sources, additional, per City Auditor . . . . . | 30,734 85                  |
| Total receipts from all sources . . . . .                               | \$8,280,604 04             |
| Less amount with tollmen as capital . . . . .                           | 200 00                     |
| Total receipts, auditor's reports . . . . .                             | <hr/> \$8,280,404 04 <hr/> |

## REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATION (EXTRAORDINARY) OF THE FERRY SERVICE FOR THE YEAR ENDING DECEMBER 31, 1927.

|  |                  |
|--|------------------|
| Appropriations (regular) for the year ending December 31, 1927 . . . . . | \$547,038 06     |
| Transferred from Bridge Service, \$5,238 86 . . . . .                    |                  |
| Carried-forward . . . . .  | <hr/> \$5,238 86 |
|  | \$547,038 06     |

|   |            |                     |
|---|------------|---------------------|
| Brought forward . . . . .                               | \$5,238 86 | \$547,138 06        |
| Transferred from Lighting Service . . . . .             | 51 89      |                     |
|   | <hr/>      | 5,290 75            |
| Amount of expenditures (regular) for the year . . . . . |            | <u>\$552,328 81</u> |

## SPECIAL APPROPRIATIONS.

## EAST BOSTON FERRY, IMPROVEMENTS, ETC.

|  |                   |
|--|-------------------|
| Unexpended balance, January 1, 1927 . . . . .  | \$10,612 67       |
| Expenditures for year 1927 . . . . .   | 9,930 44          |
|  | <hr/>             |
| Unexpended balance December 31, 1927 . . . . .   | <u>\$682 23</u>   |
| Expenditures for year made up as follows:  |                   |
| Pay rolls, labor, etc. . . . .   | \$136 16          |
| Travel expense . . . . .   | 8 50              |
| Amount paid to W. H. Ellis & Son Company, under contract for foundation for ferry bridge, North Ferry: |                   |
| Amount of contract . . . . .   | \$29,287 56       |
| Less amount paid in 1926 . . . . .   | 19,501 78         |
|  | <hr/>             |
|  | 9,785 78          |
| Total . . . . .  | <u>\$9,930 44</u> |

## East Boston Ferry, two additional boats and other permanent improvements:

|  |                     |
|--|---------------------|
| Unexpended balance, January 1, 1927 . . . . .  | \$289,020 90        |
| Expenditures for year 1927 . . . . .   | 142,392 51          |
|  | <hr/>               |
| Unexpended balance December 31, 1927 . . . . .   | <u>\$146,628 39</u> |
| Expenditures for year made up as follows:  |                     |
| Pay rolls, labor and engineering . . . . .   | \$4,454 98          |
| Travel expense . . . . .   | 76 24               |
| Labor and materials testing pontoons on North Ferry . . . . .  | 107 10              |
| Miscellaneous . . . . .  | 115 82              |
| Amount paid to Joseph A. Singarella, under contract, for remodeling canopy, North Ferry:   |                     |
| Contract price . . . . .   | \$1,620 00          |
| Extra work under order . . . . .   | 278 50              |
|  | <hr/>               |
|  | 1,898 50            |
| Amount paid to W. H. Ellis & Son Company, under contract for ferry bridge, North Ferry, East Boston:   |                     |
| Amount of work done under contract . . . . .   | \$25,988 62         |
| Extra work under order . . . . .   | 230 34              |
|  | <hr/>               |
|  | \$26,218 96         |
| Less 15 per cent retained . . . . .  | 3,932 84            |
|  | <hr/>               |
|  | 22,286 12           |
| Amount paid to J. Edward Ogden Company, Inc., under contract for electrically operated ferry bridges with gallow's frame and accompanying machinery: |                     |
| Amount of contract \$140,500 (95 per cent) completed . . . . .   | \$133,475 00        |
| Less 15 per cent retained . . . . .  | 20,021 25           |
|  | <hr/>               |
|  | 113,453 75          |
|  | <u>\$142,392 51</u> |

## Ferry improvements, etc.:

|   |             |
|---|-------------|
| Unexpended balance, January 1, 1927 . . . . . | \$68,410 44 |
| Appropriation from taxes . . . . .            | 25,000 00   |

\$93,410 44

|                                 |          |
|---------------------------------|----------|
| Expenditures for year . . . . . | 1,761 90 |
|---------------------------------|----------|

|  |                    |
|--|--------------------|
| Unexpended balance December 31, 1927 . . . . . | <u>\$91,648 54</u> |
|--|--------------------|

## Expenditures for year made up as follows:

|                                       |         |
|---------------------------------------|---------|
| Advertising . . . . .                 | \$72 75 |
| Lumber . . . . .                      | 330 81  |
| Returns electric plug rents . . . . . | 394 02  |
| One Bryant gas fire boiler . . . . .  | 964 32  |

\$1,761 90

## RECEIPTS AT EACH FERRY.

*North Ferry.*

| FROM TOLLMEN.         | From<br>Foot<br>Passengers. | From<br>Tickets. | Totals.     |
|-----------------------|-----------------------------|------------------|-------------|
| Boston side.....      | \$4,264 02                  | \$1,986 50       | \$6,250 52  |
| East Boston side..... | 3,840 82                    | 2,410 00         | 6,250 82    |
| Totals.....           | \$8,104 84                  | \$4,396 50       | \$12,501 34 |

From tollmen . . . . . \$12,501 34

From gatemen:

20,179 foot passengers at 1 cent, \$201 79

Cash fares for teams . . . . . 7,276 61

7,478 40Total at North Ferry . . . . . \$19,979 74*South Ferry.*

| FROM TOLLMEN.         | From<br>Foot<br>Passengers. | From<br>Tickets. | Totals.     |
|-----------------------|-----------------------------|------------------|-------------|
| Boston side.....      | \$7,179 79                  | \$4,093 00       | \$11,272 79 |
| East Boston side..... | 6,622 98                    | 3,697 50         | 10,320 48   |
| Totals.....           | \$13,802 77                 | \$7,790 50       | \$21,593 27 |

|   |             |
|---|-------------|
| From tollmen . . . . .                                  | \$21,593 27 |
| From gatemen:   |             |
| 51,856 foot passengers at 1 cent . . . . .              | \$518 56    |
| Cash fares for teams . . . . .                          | 28,153 16   |
|   | <hr/>       |
|   | 28,671 72   |
|   | <hr/>       |
| Total at South Ferry . . . . .                          | \$50,264 99 |
|   | <hr/>       |
| North and South Ferries . . . . .                       | \$70,244 73 |
| Tickets paid for at ferry office . . . . .              | 3,063 40    |
| Received in lieu of free ferries July 4, 1927 . . . . . | 1 00        |
|   | <hr/>       |
| Total from rates . . . . .                              | \$73,309 13 |
| Rents for the year . . . . .                            | 489 50      |
| Headhouse privileges . . . . .                          | 400 00      |
| Care of public telephone booths . . . . .               | 48 00       |
| Commission on public telephone . . . . .                | 92 04       |
| Old material sold . . . . .                             | 68 00       |
| Boats sold . . . . .                                    | 14,835 70   |
|   | <hr/>       |
| Total receipts for year . . . . .                       | \$89,242 37 |
|   | <hr/>       |

TRAVEL ON THE FERRIES FROM JANUARY 1, 1927,  
TO DECEMBER 31, 1927, INCLUSIVE.

|   | North Ferry. | South Ferry. |
|---|--------------|--------------|
| Foot passengers at 1 cent each . . . . .  | 830,663      | 1,432,133    |
| Foot passengers by ticket . . . . .   | 10,360       | 20,076       |
|   | <hr/>        | <hr/>        |
| Total foot passengers . . . . .   | 841,023      | 1,452,209    |
|   | <hr/>        | <hr/>        |
| One-horse teams, light motor trucks,<br>pleasure carriages and runabouts, . . . . . | 94,753       | 219,961      |
| Two-horse pleasure carriages, hacks<br>and touring cars . . . . .                   | 78,476       | 319,124      |
| Two-horse teams and motor trucks, . . . . .   | 85,312       | 163,039      |
| Three-horse teams and heavy motor<br>trucks . . . . .                               | 1,261        | 2,161        |
| Four-horse teams . . . . .  | 150          | 1,153        |
| Free teams, hacks and motor<br>vehicles . . . . .                                   | 10,295       | 18,033       |
|   | <hr/>        | <hr/>        |
|   | 270,247      | 723,471      |
|   | <hr/>        | <hr/>        |



## Motor Vehicle Traffic (Reports of Captains).

January 1, 1927, to December 31, 1927.

|                   | North Ferry.        | South Ferry.         | Total.  |
|-------------------|---------------------|----------------------|---------|
| Runabouts.....    | <sup>1</sup> 28,252 | <sup>2</sup> 86,431  | 114,683 |
| Touring cars..... | <sup>3</sup> 98,639 | <sup>4</sup> 357,857 | 456,496 |
| Trucks.....       | <sup>5</sup> 72,321 | <sup>6</sup> 183,004 | 255,325 |
| Totals.....       | 199,212             | 627,292              | 826,504 |

<sup>1</sup> Includes 872 free.<sup>2</sup> Includes 1,845 free.<sup>3</sup> Includes 4,870 free.<sup>4</sup> Includes 8,391 free.<sup>5</sup> Includes 3,654 free.<sup>6</sup> Includes 6,143 free.

Total paying foot passengers . . . . . 2,293,232

Total foot passengers carried . . . . . 2,293,232

Total paying teams . . . . . 965,390

Total free teams . . . . . 28,328

993,718

TOTAL TRAVEL OF BOTH FERRIES FROM FEBRUARY 1, 1922,  
TO DECEMBER 31, 1927.

|                                   | 1922-23.  | 1923-24.  | 1924-25.  | 1925.<br>(11 mons.) | 1926.     | 1927.     |
|-----------------------------------|-----------|-----------|-----------|---------------------|-----------|-----------|
| One-horse teams *. . . . .        | 502,407   | 445,839   | 406,336   | 331,086             | 348,147   | 314,714   |
| Two-horse teams †. . . . .        | 341,257   | 314,672   | 291,710   | 222,543             | 263,763   | 248,351   |
| Three-horse teams. . . . .        | 1,850     | 1,548     | 1,249     | 736                 | 1,868     | 3,422     |
| Four-horse teams. . . . .         | 6,061     | 4,816     | 2,105     | 1,514               | 2,380     | 1,303     |
| Two-horse carriages, hacks ‡. . . | 368,711   | 366,846   | 338,031   | 290,361             | 365,540   | 397,600   |
| Two-cent tolls, handcars, etc.    | 4,333     | 4,409     | 3,098     | 2,282               |           |           |
| Drag-wheels, etc. . . . .         | 2         | 5         | 35        |                     |           |           |
| Paid teams at both ferries. . . . | 1,224,621 | 1,138,135 | 1,042,564 | 848,522             | 981,698   | 965,390   |
| Free teams at both ferries. . . . | 29,349    | 26,197    | 27,988    | 24,417              | 26,195    | 28,328    |
| Total teams at both ferries..     | 1,253,970 | 1,164,332 | 1,070,552 | 872,939             | 1,007,893 | 993,718   |
| Foot passengers paid. . . . .     | 3,711,491 | 3,224,419 | 2,844,317 | 2,298,192           | 2,418,209 | 2,293,232 |
| Foot passengers free. . . . .     | 1,865     | 1,650     | 1,584     | 270                 |           |           |
| Total foot passengers. . . . .    | 3,713,356 | 3,246,089 | 2,845,901 | 2,298,462           | 2,418,209 | 2,293,232 |

NOTE.—Team travel includes automobiles.

\* Includes one-seat automobiles. † Includes motor trucks. ‡ Includes two-seat automobiles.

## APPENDIX C.

### REPORT OF THE DIVISION ENGINEER OF THE HIGHWAY DIVISION.

BOSTON, January 2, 1928.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

DEAR SIR,—I submit herewith a statement of the activities and expenditures of the Lighting and Paving Services for the year ending December 31, 1927.

The maintenance expenditures for the Highway Division for the year were as follows:

|                            |                       |
|----------------------------|-----------------------|
| Lighting Service . . . . . | \$953,642 82          |
| Paving Service . . . . .   | 1,860,155 10          |
| Total . . . . .            | <u>\$2,813,797 92</u> |

#### MAINTENANCE.

The division forces were engaged during the year resurfacing macadam roadways, patching and repairing defects in roadways and sidewalks.

The Brighton yard plant has been called upon to furnish hot and cold mixed asphalt and tar for the various parts of the city and the repair work on asphalt and bitulithic pavements out of guarantee. This work has been done by the division forces.

The snow plowing of streets in the suburbs was done under the direction of the district foremen. This year the work was greatly extended so that every street in the residential parts of the city was kept open to travel. This is the first time such a result has been accomplished.

#### CONSTRUCTION.

During the year contracts were awarded to do work on about one hundred and three streets: There were about 45,000 yards of recut granite block laid; 139,000 yards of sheet asphalt; 133,000 yards of bitulithic, all

laid on a concrete base; 9,800 yards of reinforced concrete, and 150,000 yards of artificial stone sidewalks.

Forty-two streets laid out under the "Highways, making of," appropriation were constructed.

The following are important thoroughfares that were reconstructed: Lexington street, Meridian to Shelby street; Medford street, Chelsea to Main street; A street, Congress street to Dorchester avenue; East Broadway, L street to Farragut road; Dock square and Faneuil Hall square; Boylston street, Tremont to Charles street and Berkeley to Exeter street; Park square, Boylston street to Columbus avenue; Columbus avenue, Park square to Stuart street; Stuart street, Broadway to Columbus avenue; Washington street, Dover street to Massachusetts avenue; Columbus avenue, Dartmouth to Northampton street; Stuart street, Huntington avenue to Dartmouth street; Beacon street, Massachusetts avenue to Raleigh street; Brookline avenue, Brookline line to Fenway; Longwood avenue, Brookline avenue to Riverway; Crawford street, Warren street to Walnut avenue; Harold street, Walnut avenue to Seaver street; Dudley street, Harrison avenue to Blue Hill avenue; Harrison avenue, East Lenox street to Warren street; Freeport street, Dorchester avenue to Old Colony Parkway; Quincy street, Warren street to Columbia road.

The following is a list of streets that were widened and reconstruction ordered. The work was commenced during the year: River street, from Blue Hill avenue to Everett square, Hyde Park; Kneeland street, Washington street to Atlantic avenue; Ashland street, Wood avenue to Wilmot street; Oakland street, Orlando to Hebron street; Morton street, Druid to Washington street, was graded and work completed during the year.

#### STREET SIGNS.

During the year the Highway Division has commenced the erecting of new street signs. The sign plate is of blue enamel background with a white porcelain letter; they are inclosed in a malleable iron container frame bolted to an ornamental malleable section, the whole being attached to the post with steel clamps, nuts and bolts.

Two sizes of malleable iron sections are used, one to fit the iron pipe posts and one to fit the boulevard type of street lamp posts. The pipe posts are of standard

wrought-iron pipe of  $3\frac{1}{2}$  inches inside diameter, set 3 feet in the ground. A galvanized malleable iron acorn cap is used with each pipe post. At the close of the year these new street signs have been set up in all of the city proper as far south as Northampton street and the main thoroughfares from Dorchester, Roxbury, West Roxbury and Brighton.

#### LIGHTING SERVICE.

The Lighting Service has installed the boulevard type of white way lamps in the following streets: Newbury street, Arlington to Clarendon street; Corinth, Birch, Poplar and South streets in the Roslindale business section; Blue Hill avenue, between Talbot avenue and Morton street.

Eighteen street lights have been installed on the new Southern Artery. The new posts are of the Westinghouse Sheridan type with hollow spun concrete posts.

The new light unit is a fifteen hundred candle power multiple incandescent twenty ampere lamp with the rippled glass globe covering the lamp unit. These lamps are supplied by resonant controlled relays. When this work is completed there will be sixty-seven of these new lamps installed on the new Southern Artery.

Respectfully,

JOSHUA ATWOOD,  
*Division Engineer.*

## HIGHWAY DIVISION — LIGHTING SERVICE.

## FINANCIAL STATEMENT.

*Expenditures January 1, 1927, to December 31, 1927.**Electric Lighting:**Arc.*

|  |              |              |
|--|--------------|--------------|
| Edison Electric Illuminating Company . . . . . | \$533,350 96 |              |
| Charlestown Gas and Electric Company . . . . . | 27,739 04    |              |
|  | <hr/>        | \$561,090 00 |

*Incandescent.*

|   |              |            |
|---|--------------|------------|
| Edison Electric Illuminating Company . . . . .            | \$114,644 96 |            |
| Charlestown Gas and Electric Company . . . . .            | 1,316 25     |            |
| Charlestown Gas and Electric Company fire alarm . . . . . | 274 99       |            |
|   | <hr/>        | 116,236 20 |

*Gas Lighting:*

|   |              |            |
|---|--------------|------------|
| Boston Consolidated Gas Company . . . . .                 | \$247,222 51 |            |
| Charlestown Gas and Electric Company . . . . .            | 13,117 70    |            |
| Charlestown Gas and Electric Company fire alarm . . . . . | 601 46       |            |
|   | <hr/>        | 260,941 67 |

*Salaries and Wages:*

|                                       |            |          |
|---------------------------------------|------------|----------|
| Division Engineer (part of) . . . . . | \$1,250 00 |          |
| Clerk . . . . .                       | 2,358 17   |          |
| Stenographer and clerk . . . . .      | 346 25     |          |
| Lighting inspector . . . . .          | 1,858 33   |          |
|                                       | <hr/>      | 5,812 75 |

*Automobile Expense:*

|   |          |        |
|---|----------|--------|
| Gasolene, oil, etc. . . . .                 | \$111 93 |        |
| Registration . . . . .                      | 10 00    |        |
| Shoes and tubes, new and repairs, . . . . . | 11 65    |        |
| Supplies . . . . .                          | 764 76   |        |
| Repairs . . . . .                           | 46 48    |        |
|   | <hr/>    | 944 82 |

|                                  |       |              |
|----------------------------------|-------|--------------|
| <i>Carried forward . . . . .</i> | <hr/> | \$945,025 44 |
|----------------------------------|-------|--------------|

|   |                           |
|---|---------------------------|
| <i>Brought forward . . . . .</i>  | \$945,025 44              |
| <i>Construction:</i>  |                           |
| Installing lamps and posts and removing and<br>relocating lamps and posts . . . . . | 4,961 29                  |
| <i>Office Expenses:</i>   |                           |
| Printing . . . . .  | \$120 00                  |
| Postage . . . . .   | 32 00                     |
| Stationery and periodicals . . . . .  | 34 42                     |
|   | <hr/> 186 42              |
| <i>Miscellaneous.</i>   |                           |
| Travel expenses (car fares) . . . . .   | \$25 00                   |
| Typewriter repairs and inspection . . . . .   | 12 00                     |
| Gas lamp posts . . . . .  | 3,878 00                  |
|   | <hr/> 3,915 00            |
| Total . . . . .   | \$954,088 15              |
| Less rebates on installations . . . . .   | 445 33                    |
| Total . . . . .   | <hr/> <u>\$953,642 82</u> |

*Revenue Credited to General Revenue.*

|   |                         |
|---|-------------------------|
| Lighting Boston and Cambridge Bridges . . . . . | \$1,462 37              |
| Damage to posts . . . . .                       | 726 87                  |
|   | <hr/> <u>\$2,189 24</u> |

The following is a statement of the work done during the year under the supervision of the Division Engineer.

Arc lamps have been provided for skating and tobogganing during the season at Franklin Field, Franklin Park and Wood Island Park, the same as in years past.

Boulevard type white way arc lamps have been installed in Park square, Providence street, Columbus avenue, Dock square, Kneeland street, Newbury street, Washington street, between Dover street and Massachusetts avenue, city proper; Audubon road and Fenway, Roxbury; New road, Circuit Drive, Franklin Park; Corinth street, Birch street, Poplar street, South street, West Roxbury; Hyde Park avenue, Hyde Park.

Boulevard type white way incandescent lamps have been installed on Huntington avenue, city proper; New Southern Artery, Blue Hill avenue, between Talbot avenue and Morton street, Dorchester. Thus throughout the city the lighting system has been increased including the boulevard type and reinforced cement



posts by the installation of 115 arc lamps, 306 incandescent lamps and 81 gas lamps at various locations.

Petitions and requests for new lamps received from citizens and from officials, also complaints in relation to the Lighting Service have been investigated and attended to. All streets in the underground district prescribed for the year have been inspected and the necessary changes and additions have been made.

The number of miles of streets and ways lighted by this service is as follows:

|   |               |
|---|---------------|
| Public streets and alleys . . . . .   | 625.86        |
| Public footways . . . . .   | 9.35          |
| Park roads, footways, private streets and alleys<br>approximately . . . . . | 290.79        |
| Total . . . . .   | <u>926 00</u> |

During the year the following defects were reported by the police: arc lamps, 4,575; incandescent, 1,669 and gas lamps, 1,281.

There are in operation 21,668 arc, incandescent and gas lamps, divided as follows: 6,093 arc, 5,532 incandescent, 9,878 single mantle gas lamps and 165 single mantle fire alarm gas lamps.

#### LAMPS INSTALLED.

|  |            |
|--|------------|
| Magnetite arc lamps . . . . .                  | 160        |
| Tungsten lamps . . . . .                       | 329        |
| Single mantle gas lamps . . . . .              | 144        |
| Single mantle gas lamps (fire alarm) . . . . . | 20         |
|  | <u>653</u> |

#### LAMPS DISCONTINUED.

|                                   |            |
|-----------------------------------|------------|
| Magnetite arc lamps . . . . .     | *45        |
| Tungsten lamps . . . . .          | 23         |
| Single mantle gas lamps . . . . . | 83         |
|                                   | <u>151</u> |

\* Forty-two series magnetite arc lamps changed to 1,500 candle power series incandescent lamps. One 40 candle power series incandescent lamp changed to 125 candle power series incandescent lamp.



The following table shows the work of setting and repairing and altering lamp-posts, brackets, service, etc.:

|                       | Set for<br>Lamps. | Set in<br>Place of<br>Broken<br>Posts. | Shifted to<br>New<br>Location. | Straight-<br>ened. | Reset to<br>Line and<br>Grade. | Unused<br>Posts<br>Removed. | Repaired. | Relaid. | Laid. | Cleared. | Set in<br>Place of<br>Brackets. | Shades. |
|-----------------------|-------------------|--|--------------------------------|--------------------|--------------------------------|-----------------------------|-----------|---------|-------|----------|---------------------------------|---------|
| Are posts .....       | 158               | 1                                      | 17                             | .....              | 56                             | .....                       | .....     | 12      | ..... | .....    | .....                           | 12      |
| Are brackets .....    | 2                 | .....                                  | .....                          | .....              | .....                          | .....                       | .....     | .....   | ..... | .....    | .....                           | .....   |
| Cement posts .....    | 18                | .....                                  | .....                          | .....              | .....                          | .....                       | .....     | .....   | ..... | .....    | .....                           | .....   |
| Boulevard posts ..... | 30                | .....                                  | .....                          | .....              | .....                          | .....                       | .....     | .....   | ..... | .....    | .....                           | .....   |
| Mazda fixtures .....  | 241               | .....                                  | 10                             | .....              | 10                             | .....                       | .....     | .....   | ..... | .....    | .....                           | 7       |
| Gas posts .....       | 144               | 179                                    | 10                             | 31                 | 86                             | 57                          | 6         | 35      | ..... | 123      | 3                               | 15      |
| Gas brackets .....    | .....             | .....                                  | .....                          | .....              | .....                          | 4                           | .....     | .....   | ..... | .....    | .....                           | .....   |

The following table shows the number of lamps of various types in use on January 1, 1928, as compared with the number in use on January 1, 1927.

|                            | January,<br>1928. | January,<br>1927. | Increase or<br>Decrease. |
|----------------------------|-------------------|-------------------|--------------------------|
| Single mantle gas.....     | 9,878             | 9,817             | 61                       |
| Fire alarm gas.....        | 165               | 145               | 20                       |
| Magnetite series.....      | 6,093             | 5,978             | 115                      |
| Tungsten-incandescent..... | 5,532             | 5,226             | 306                      |
|                            | 21,668            | 21,166            | 502                      |

### STREET LAMP OUTAGES.

Rebates for lamps not lighted on schedule time or out before the proper time have been received on the various monthly bills as follows:

| DATE.              | Are.     | Incan-<br>descent. | Gas.   |
|--------------------|----------|--------------------|--------|
| January, 1927..... | 210.82   | 3.29               | 64.67  |
| February.....      | 165.52   | 9.66               | 13.44  |
| March.....         | 107.42   | 3.20               | 13.57  |
| April.....         | 50.76    | 1.53               | 8.90   |
| May.....           | 88.90    | 2.52               | 6.95   |
| June.....          | 42.97    | 12.74              | 2.39   |
| July.....          | 66.26    | 1.57               | 3.02   |
| August.....        | 104.01   | 7.04               | 4.24   |
| September.....     | 77.06    | 2.06               | 3.76   |
| October.....       | 90.29    | 2.40               | 9.32   |
| November.....      | 179.25   | 9.18               | 10.15  |
| December.....      | 155.68   | 5.47               | 10.78  |
|                    | 1,338.94 | 60.66              | 151.19 |

## GAS LIGHTING.

There are 9,878 single mantle gas lamps and 165 single mantle fire alarm gas lamps.

The city furnishes the lamp-posts, the gas company sets the lamp-posts and provides service pipes laid from the gas mains to the top of the posts; maintain all such pipes and posts in good condition and repair, furnish gas, lanterns, burners and all other necessary equipment including labor for lighting and care.

The Lighting Service provides for the gas, lighting and care of fire alarm signal lamps and the Fire Department for the posts, setting and repairing of same.

## Gas Lamps.

| Lighting Contract.                     | Gas District.   | Number of Lamps. | Type of Lamp.                             | Rated Candle Power. | Gas Consumed per Hour. | Hours of Burning per Annum. | Cost of Gas per Lamp per Annum. | Cost per Lamp for Lighting and Care per Annum. | Total Cost per Lamp per Annum. |
|--|---|------------------|---|---------------------|------------------------|-----------------------------|---------------------------------|--|--------------------------------|
| Boston Consolidated Gas Company.*      | South Boston, East Boston, Dorchester, Roxbury, Brighton, West Roxbury. | 9,372<br>142     | Single mantle.<br>Single mantle.<br>F. A. | 60<br>60            | 3 feet.<br>3 feet.     | 3,886.45<br>3,886.45        | \$11 00<br>11 00                | \$15 20<br>15 20                               | \$26 20<br>26 20               |
| Charlestown Gas and Electric Company.* | Charlestown.....  | 506<br>23        | Single mantle.<br>Single mantle.<br>F. A. | 60<br>60            | 3 feet.<br>3 feet.     | 3,886.45<br>3,886.45        | 11 00<br>11 00                  | 15 20<br>15 20                                 | 26 20<br>26 20                 |

\* Ten-year contract approved May 20, 1924.

There are 6,093 magnetite arc lamps, 2,081 40 candle power, 3,125 80 candle power, 30 100 candle power; 55 132 candle power; 32 250 candle power; 11 528 candle power; 15 1,000 candle power; 23 950 candle power; 160 1,500 candle power incandescent lamps.

The electric companies provide and set the lamp-posts, except the lamp-posts for incandescent lamps supplied from underground circuits, furnish lamps, overhead wires, underground conduits, cables and connections and all other necessary equipments and maintain them in good condition and repair.

The lighting rates for electric lamps are in accordance with the following table:

| DESCRIPTION OF LAMPS.                               | Fixed Costs<br>per Lamp<br>per Year. | Running Cost<br>per Lamp<br>Hour. |
|---|--------------------------------------|-----------------------------------|
| 40 candle power incandescent lamp, series. . . .    | \$10 00                              | .22 cent                          |
| 40 candle power incandescent lamp, multiple . .     | 10 00                                | .22 cent                          |
| 36 candle power incandescent lamp, multiple . .     | 10 80                                | .26 cent                          |
| 80 candle power incandescent lamp, series. . . .    | 10 80                                | .26 cent                          |
| 100 candle power incandescent lamp, series. . . .   | 12 00                                | .30 cent                          |
| 132 candle power incandescent lamp, multiple . .    | 13 50                                | .36 cent                          |
| 250 candle power incandescent lamp, series. . . .   | 18 00                                | .6 cent                           |
| 528 candle power incandescent lamp, multiple . .    | 32 00                                | 1 cent                            |
| 1,000 candle power incandescent lamp, series. . . . | 34 00                                | 1.4 cent                          |
| 950 candle power incandescent lamp, multiple . .    | 32 00                                | 1.3 cent                          |
| 1,475 candle power incandescent lamp, multiple . .  | 36 00                                | 1.5 cent                          |
| 1,500 candle power incandescent lamp, series. . . . | 36 00                                | 1.5 cent                          |

A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is made for outage.

Arc Lamps.

| COMPANY.                                  | Number of Lamps. | Connected.   | Type of Lamps. | Type of Circuits.     | Terminal. | Lighting Hours. | Cost of Lamp per Annum. |
|---|------------------|--------------|----------------|-----------------------|-----------|-----------------|-------------------------|
| Edison Electric Illuminating Company..... | 1,878            | Overhead.    | Magnetite.     | Series 6.6 amp. D. C. | 528       | 3,827           | \$93 42                 |
|   | 3,915            | Underground. | Magnetite.     | Series 6.6 amp. D. C. | 528       | 3,827           | 93 42                   |
| Charlestown Gas and Electric Company..... | 226              | Overhead.    | Magnetite.     | Series 6.6 amp. D. C. | 528       | 3,827           | 93 42                   |
|   | 74               | Underground. | Magnetite.     | Series 6.6 amp. D. C. | 528       | 3,827           | 93 42                   |

NOTE.—In the above the candle power figures are the official designations. The wattage figures are here eliminated.

## Incandescent Lamps.

| COMPANY.                                  | Number of Lamps. | Type of Lamps. | Type of Circuits.     | Candle Power. | Lighting Hours. | Cost of Lamp per Annum. |
|---|------------------|----------------|-----------------------|---------------|-----------------|-------------------------|
| Edison Electric Illuminating Company..... | { 2,064 }        | Tungsten.      | Series 6.6 amp. D. C. | 40            | 3,827           | \$18 42                 |
|   |                  | Tungsten.      | Multiple amp. D. C.   |               |                 |                         |
|   | { 3,125 }        | Tungsten.      | Multiple amp. D. C.   | 66            | 3,827           | 20 75                   |
|   |                  |                | Series amp. D. C.     |               |                 |                         |
|   | { 30 }           | Tungsten.      | Series.               | 100           | 3,827           | 23 48                   |
|   |                  |                | Multiple.             |               |                 |                         |
|   | { 55 }           | Tungsten.      | Multiple.             | 132           | 3,827           | 27 28                   |
|   |                  |                | Series 6.6 amp. D. C. |               |                 |                         |
|   | { 32 }           | Tungsten.      | Multiple amp. D. C.   | 250           | 3,827           | 40 97                   |
|   |                  |                | Multiple amp. D. C.   |               |                 |                         |
| Charlestown Gas and Electric Company..... | { 23 }           | Tungsten.      | Multiple.             | 950           | 3,827           | 81 76                   |
|   |                  |                | Multiple.             |               |                 |                         |
|   | { 30 }           | Tungsten.      | Multiple.             | 1,475         | 3,827           | 93 42                   |
|   |                  |                | Series amp. A. C.     |               |                 |                         |
|   | { 130 }          | Tungsten.      | Series 6.6 amp. D. C. | 1,500         | 3,827           | 18 42                   |
|   |                  |                | Series amp. D. C.     |               |                 |                         |
|   | { 17 F. A. }     | Tungsten.      | Series amp. D. C.     | 1,000         | 3,827           | 87 59                   |
|   |                  |                | Series amp. D. C.     |               |                 |                         |
|   | { 15 }           | Tungsten.      |                       |               |                 |                         |
|   |                  |                |                       |               |                 |                         |

NOTE.— In the above the candle power are the official designations. The wattage figures are here eliminated.



## FINANCIAL STATEMENT, PAVING SERVICE.

## MAINTENANCE.

|   |                |
|---|----------------|
| Appropriation, from taxes . . . . .                                       | \$1,860,678 74 |
| Transfer from Lighting Service . . . . .                                  | 15,476 36      |
|   | <hr/>          |
|   | \$1,876,155 10 |
| Transfer to Reconstructing and<br>Repairing Streets by Contract . . . . . | 16,000 00      |
|   | <hr/>          |
|   | \$1,860,155 10 |
| Expended during the year . . . . .  | <hr/>          |
|   | \$1,860,155 10 |
|   | <hr/>          |

## SPECIAL APPROPRIATIONS.

*Highways, making of:*

|   |              |
|---|--------------|
| Amount expended during the year . . . . . | <hr/>        |
|   | \$549,786 68 |
|   | <hr/>        |

## DEPARTMENTAL EQUIPMENT.

|  |             |
|--|-------------|
| Balance January 1, 1927 . . . . .                      | \$44,794 84 |
| Expended during the year by Sanitary Service . . . . . | 42,330 00   |
|  | <hr/>       |
| Balance December 31, 1927 . . . . .                    | \$2,464 84  |
|  | <hr/>       |

## GARAGE, HANCOCK STREET YARD.

|                                     |          |
|-------------------------------------|----------|
| Balance January 1, 1927 . . . . .   | \$884 87 |
| Expended during the year . . . . .  | 529 35   |
|                                     | <hr/>    |
| Balance December 31, 1927 . . . . . | \$355 52 |
|                                     | <hr/>    |

## GRANOLITHIC SIDEWALK.

|                                     |              |
|-------------------------------------|--------------|
| Balance January 1, 1927 . . . . .   | \$52,597 69  |
| Appropriation from taxes . . . . .  | 50,000 00    |
|                                     | <hr/>        |
|                                     | \$102,597 69 |
| Expended during the year . . . . .  | 76,028 23    |
|                                     | <hr/>        |
| Balance December 31, 1927 . . . . . | \$26,569 46  |
|                                     | <hr/>        |

## LAND, EAST BOSTON.

|                                     |          |
|-------------------------------------|----------|
| Balance January 1, 1927 . . . . .   | \$640 00 |
| Expended during the year . . . . .  | 0 00     |
|                                     | <hr/>    |
| Balance December 31, 1927 . . . . . | \$640 00 |
|                                     | <hr/>    |

## PERMANENT STREET PAVEMENT.

|   |                    |
|---|--------------------|
| Appropriation. Loan inside the debt limit . . . . . | \$500,000 00       |
| Expended during the year . . . . .                  | 436,489 73         |
|   | <hr/>              |
| Balance December 31, 1927 . . . . .                 | <u>\$63,510 27</u> |

## RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.

|  |                    |
|--|--------------------|
| Balance January 1, 1927 . . . . .      | \$369,779 81       |
| Appropriation from taxes . . . . .     | 250,000 00         |
| Transfer from Paving Service . . . . . | 16,000 00          |
| Revenue . . . . .                      | 600 00             |
|  | <hr/>              |
|  | \$636,379 81       |
| Expended during the year . . . . .     | 589,317 69         |
|  | <hr/>              |
| Balance December 31, 1927 . . . . .    | <u>\$47,062 12</u> |

## STREET SIGNS.

|                                     |                    |
|-------------------------------------|--------------------|
| Balance January 1, 1927 . . . . .   | \$25,000 00        |
| Appropriation from taxes . . . . .  | 25,000 00          |
|                                     | <hr/>              |
|                                     | \$50,000 00        |
| Expended during the year . . . . .  | 35,941 91          |
|                                     | <hr/>              |
| Balance December 31, 1927 . . . . . | <u>\$14,058 09</u> |

## CAMBRIDGE STREET AND COURT STREET.

|                                    |                   |
|------------------------------------|-------------------|
| Expended during the year . . . . . | <u>\$8,919 89</u> |
|------------------------------------|-------------------|

## DOCK SQUARE AND FANEUIL HALL SQUARE IMPROVEMENT.

|                                    |                    |
|------------------------------------|--------------------|
| Expended during the year . . . . . | <u>\$47,051 13</u> |
|------------------------------------|--------------------|

## KNEELAND STREET IMPROVEMENT.

|                                    |                    |
|------------------------------------|--------------------|
| Expended during the year . . . . . | <u>\$41,692 03</u> |
|------------------------------------|--------------------|

## MORTON STREET IMPROVEMENT.

|                                    |                    |
|------------------------------------|--------------------|
| Expended during the year . . . . . | <u>\$22,201 31</u> |
|------------------------------------|--------------------|

## TREMONT STREET IMPROVEMENT.

|                                    |                   |
|------------------------------------|-------------------|
| Expended during the year . . . . . | <u>\$3,149 15</u> |
|------------------------------------|-------------------|

## OAKLAND STREET AND ASHLAND STREET IMPROVEMENT.

|                                    |                    |
|------------------------------------|--------------------|
| Expended during the year . . . . . | <u>\$19,752 81</u> |
|------------------------------------|--------------------|

## RIVER STREET RECONSTRUCTION.

|                                    |                   |
|------------------------------------|-------------------|
| Expended during the year . . . . . | <u>\$5,840 88</u> |
|------------------------------------|-------------------|

## PAVING SERVICE.

## SUMMARY OF EXPENDITURES.

|  |                    |           |
|--|--------------------|-----------|
| Paving Service, maintenance . . . . .                  | \$1,860,155        | 10        |
| Highways, making of . . . . .                          | 549,786            | 68        |
| Departmental equipment (Sanitary Service) <sup>1</sup> |                    |           |
| Garage, Hancock street yard . . . . .                  | 529                | 35        |
| Granolithic sidewalks . . . . .                        | 76,028             | 23        |
| Permanent street pavement . . . . .                    | 436,489            | 73        |
| Reconstructing and repairing streets by contract,      | 589,317            | 69        |
| Street signs . . . . .                                 | 35,941             | 91        |
| Cambridge street and Court street . . . . .            | 8,919              | 89        |
| Dock square and Faneuil Hall square improve-           |                    |           |
| ment . . . . .   | 47,051             | 13        |
| Kneeland street improvement . . . . .                  | 41,692             | 03        |
| Morton street improvement . . . . .                    | 22,201             | 31        |
| Tremont street improvement . . . . .                   | 3,149              | 15        |
| Oakland street and Ashland street improvement,         | 19,752             | 81        |
| River street reconstruction . . . . .                  | 5,840              | 88        |
| Total . . . . .  | <u>\$3,696,855</u> | <u>89</u> |

## INCOME.

Statement showing the amount of bills and cash deposited with the City Collector from January 1, 1927, to December 31, 1927, and credited to General Revenue.

|  |                 |           |
|--|-----------------|-----------|
| Edgestone and sidewalk assessments . . . . . | \$18,497        | 38        |
| Permits . . . . .                            | 26,997          | 33        |
| Labor, materials furnished, etc. . . . .     | 13,389          | 37        |
| Total . . . . .                              | <u>\$58,884</u> | <u>08</u> |

AMOUNT PAID INTO THE CITY TREASURY  
DURING THE YEAR.

|  |                 |           |
|--|-----------------|-----------|
| Edgestone and sidewalk assessments . . . . . | \$26,841        | 29        |
| Permits . . . . .                            | 26,674          | 33        |
| Labor, material furnished, etc. . . . .      | 11,718          | 22        |
| Services of inspector (from 1926) . . . . .  | 108             | 00        |
| Total . . . . .                              | <u>\$65,341</u> | <u>84</u> |

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<sup>1</sup> \$42,330.

# HIGHWAY DIVISION — PAVING SERVICE. Work Done by Contract.

|   | Old.                 | New.                  | Total<br>Old and New. |
|---|----------------------|-----------------------|-----------------------|
| Edgestone set.....  | 105,967 linear feet. | 69,447 linear feet.   | 175,414 linear feet.  |
| Crushed stone foundation for edgestone.....                               | .....                | 4,858 " "             | 4,858 " "             |
| <sup>1</sup> Concrete base laid.....                                      | 16,973 square yards. | 250,376 square yards. | 267,349 square yards. |
| <sup>2</sup> Granite block paving laid, gravel joints.....                | 6,293 " "            | 383 " "               | 6,676 " "             |
| <sup>3</sup> Recut granite block paving laid, grout joints.....           | .....                | 57,526 " "            | 57,526 " "            |
| <sup>4</sup> Second-hand granite block paving laid with grout joints..... | 1,617 square yards.  | 43,236 " "            | 44,853 " "            |
| <sup>5</sup> Sheet asphalt and binder laid.....                           | .....                | 138,948 " "           | 138,948 " "           |
| <sup>6</sup> Bitulithic pavement laid.....                                | 592 square yards.    | 131,902 " "           | 132,494 " "           |
| <sup>7</sup> Concrete pavement laid.....                                  | .....                | 26,097 " "            | 26,097 " "            |
| Wood block pavement laid.....   | 116 square yards.    | .....                 | 116 " "               |
| Extra binder.....   | .....                | 10½ tons.             | 10½ tons.             |
| <sup>8</sup> Artificial stone sidewalks laid.....                         | 12,735 square yards. | 136,838 square yards. | 149,573 square yards. |
| Brick sidewalks laid.....   | 7,253 " "            | 3,230 " "             | 10,483 " "            |
| Crushed stone and cinder sidewalks laid.....                              | 518 " "              | .....                 | 518 " "               |
| Steel reinforcement laid.....   | .....                | 156,725 pounds.       | 156,725 pounds.       |
| Earth excavation.....   | .....                | 58,521 cubic yards.   | 58,521 cubic yards.   |
| Filling furnished.....  | .....                | 6,022 " "             | 6,022 " "             |

|   |       |                                |
|---|-------|--------------------------------|
| Crushed stone furnished.....                | ..... | 5,061 tons.                    |
| Loam furnished.....                         | ..... | 164 cubic yards.               |
| Old concrete base removed.....              | ..... | 5,213 square yards.            |
| Covers, catch-basins and Bradley heads..... | ..... | 934 " "                        |
| Wood fence.....                             | ..... | 130 linear feet.               |
| Brick block pavement removed.....           | ..... | 17 $\frac{1}{2}$ square yards. |
| Walls removed.....                          | ..... | 561 cubic yards.               |
| Trees removed.....                          | ..... | 92 " "                         |
| Rock excavation.....                        | ..... | 7,304 " "                      |
| Catch-basins built.....                     | ..... | 21 " "                         |
| Dry wells.....                              | ..... | 3 " "                          |
| Concrete walls.....                         | ..... | 95 linear feet.                |
| Rubble walls.....                           | ..... | 3,120 " "                      |

## Explanations of Numerals on Preceding Pages.

|  |   |                       |
|--|---|-----------------------|
| 1 Concrete base laid six (6) inches thick.<br>Total concrete base laid.....  | 250,376 square yards.   | 250,376 square yards. |
| 2 Granite blocks laid with gravel joints.....<br>Total granite blocks laid with gravel.....  | 383 square yards.   | 383 square yards.     |
| 3 Recut granite block laid, grout joints, formerly macadam roadway.<br>Recut granite block laid, grout joints, formerly pitch joints.<br>Recut granite block laid, grout joints, formerly grout joints.<br>Recut granite block laid, grout joints, formerly gravel joints.<br>Recut granite block laid, grout joints, formerly filling.<br>Total recut granite block laid with grout joints..... | 1,799 square yards.<br>6,939 "<br>4,825 "<br>40,660 "<br>3,303 "    | 57,526 square yards.  |
| 4 Second-hand granite block paving laid, grout joints, formerly gravel roadway.<br>Second-hand granite block paving laid, grout joints, formerly grout joints.<br>Second-hand granite block paving laid, grout joints, formerly macadam roadway.<br>Total second-hand granite block paving laid with grout joints.....   | 89 square yards.<br>8,716 "<br>34,388 "<br>43 "                     | 43,236 square yards.  |
| 5 Sheet asphalt pavement laid, formerly macadam roadway.<br>Sheet asphalt pavement laid, formerly gravel roadway.<br>Sheet asphalt pavement laid, formerly granite block paving.<br>Sheet asphalt pavement laid, formerly brick block paving.<br>Sheet asphalt pavement laid, formerly bitulithic pavement.<br>Total sheet asphalt pavement laid.....  | 39,063 square yards.<br>50,302 "<br>21,218 "<br>8,894 "<br>19,471 " | 138,948 square yards. |
| 6 Bitulithic pavement laid, formerly gravel roadway.<br>Bitulithic pavement laid, formerly macadam roadway.<br>Bitulithic pavement laid, formerly wood block pavement.<br>Bitulithic pavement laid, formerly granite block pavement.<br>Total bitulithic pavement laid.....  | 38,886 square yards.<br>50,210 "<br>37,804 "<br>5,002 "             | 131,902 square yards. |
| 7 Concrete pavement laid, formerly gravel roadway.<br>Total concrete pavement laid.....  | 9,815 square yards.   | 9,815 square yards.   |
| 8 Artificial stone sidewalks laid with foundation.<br>Artificial stone sidewalks laid on existing foundation.<br>Total artificial stone sidewalks laid.....  | 44,818 square yards.<br>92,020 "<br>136,838 square yards.           | 136,838 square yards. |

|   | Old.                  | New.                  | Total.              |
|---|-----------------------|-----------------------|---------------------|
| Edgestone set. . . . .                              | 29,053 linear feet.   | 8,359 linear feet.    | 37,412 linear feet. |
| Concrete base laid . . . . .                        | 1,354 square yards.   |                       | 1,354 square yards. |
| Roadway, granite block, gravel joints. . . . .      | 11,167 " "            | 13 square yards.      | 11,180 " "          |
| Roadway, granite block, grout joints. . . . .       | 20,730 " "            | 406 " "               | 21,136 " "          |
| Gutter, granite block, gravel joints. . . . .       | 10,864 " "            | 1,866 " "             | 12,730 " "          |
| Gutter, granite block, grout joints. . . . .        | 3,398 " "             | 106 " "               | 3,504 " "           |
| Flagging crosswalk, gravel joints. . . . .          | 780 " "               | 34 " "                | 814 " "             |
| Roadway, wood block, sand joints. . . . .           | 7,898 " "             |                       | 7,898 " "           |
| Asphalt penetration macadam surface placed. . . . . |                       | 149,814 square yards. | 149,814 " "         |
| Macadam surface patched. . . . .                    | 398,747 square yards. |                       | 398,747 " "         |
| Asphalt blanket coat. . . . .                       | 68,815 " "            |                       | 68,815 " "          |
| Macadam roadway sanded. . . . .                     | 1,200 " "             |                       | 1,200 " "           |
| Sheet asphalt surface placed. . . . .               |                       | 1,943 square yards.   | 1,943 " "           |
| Sheet asphalt surface patched *. . . . .            | 4,915 square yards.   |                       | 4,915 " "           |
| Sheet asphalt surface patched †. . . . .            | 9,928 " "             |                       | 9,928 " "           |
| Brick sidewalks laid. . . . .                       | 55,414 " "            | 582 square yards.     | 55,996 " "          |
| Artificial stone sidewalks laid. . . . .            | 7,437 " "             | 2,092 " "             | 9,529 " "           |
| Sidewalk excavating, no sidewalks laid. . . . .     |                       | 134 " "               | 134 " "             |
| Gravel or crushed stone sidewalks surfaced. . . . . | 200,837 square yards. |                       | 200,837 " "         |
| Roadway excavating, no roadway constructed. . . . . | 567 cubic yards.      |                       | 567 cubic yards.    |
| Roadway excavating, roadway changed. . . . .        | 461 " "               |                       | 461 " "             |
| Grading (no pavement laid). . . . .                 |                       | 1,133 square yards.   | 1,133 square yards. |
| Brick block pavement laid. . . . .                  | 286 cubic yards.      |                       | 286 " "             |
| Concrete roadway laid. . . . .                      | 1,465 " "             | 296 square yards.     | 1,761 " "           |
| New style sign posts erected. . . . .               |                       | 1,308                 | 1,308               |

\* Patched with asphalt mixture from Brighton asphalt plant.

† Patched with bituroc, kyrook, emulsified asphalt and stone, taric compound and stone, etc.



Objects of Expenditures from the Various Appropriations, Classified by Districts, from January 1, 1927, to  
December 31, 1927.

| DISTRICTS.                             | Macadam Repairs. | Paved Street Repairs. | Removal of Snow. | Street Cleaning. | Edgestone and Sidewalk Repairs. | Street Work.           | Schedule A, Miscellaneous. | Totals.        |
|--|------------------|-----------------------|------------------|------------------|---------------------------------|------------------------|----------------------------|----------------|
| South Boston and Dorchester North..... | \$12,862 38      | \$17,875 14           | \$29,822 12      | \$1,441 02       | \$13,628 19                     | \$141,073 22           | .....                      | \$216,702 07   |
| East Boston and Breed's Island.....    | 14,593 19        | 1,251 66              | 14,537 67        | 1,229 61         | 11,826 99                       | 67,627 55              | .....                      | 111,066 67     |
| Charlestown.....                       | 7,681 75         | 10,204 49             | 40,673 69        | 2,005 45         | 12,654 69                       | 119,795 26             | .....                      | 193,015 33     |
| Brighton.....                          | 36,598 63        | 210 33                | 20,882 54        | 29,038 27        | 13,326 15                       | 134,491 25             | .....                      | 234,547 17     |
| West Roxbury.....                      | 40,157 92        | 1,453 54              | 38,301 72        | 28,271 26        | 11,231 25                       | 290,012 85             | .....                      | 409,428 54     |
| Dorchester.....                        | 28,459 49        | 2,368 74              | 23,174 78        | 12,678 23        | 17,295 73                       | 116,733 04             | .....                      | 200,710 01     |
| Roxbury South and Jamaica Plain.....   | 44,328 77        | 2,366 38              | 49,291 76        | 49,585 93        | 18,582 41                       | 351,148 77             | .....                      | 515,304 02     |
| City Proper.....                       | 32,213 03        | 26,605 65             | 214,796 24       | 787 03           | 51,331 37                       | 551,178 88             | .....                      | \$76,912 20    |
| Ashmont.....                           | 23,630 66        | 1,440 47              | 21,351 18        | 14,381 60        | 7,402 40                        | 214,496 16             | .....                      | 282,702 47     |
| Hyde Park.....                         | 19,851 21        | 162 25                | 11,043 92        | 11,645 39        | 2,760 42                        | 14,780 72              | .....                      | 60,243 91      |
| Miscellaneous.....                     | .....            | .....                 | .....            | .....            | .....                           | <sup>1</sup> 69,053 74 | <sup>2</sup> \$527,257 71  | 596,311 45     |
| Totals.....                            | \$260,377 03     | \$63,938 65           | \$463,875 62     | \$151,063 79     | \$160,039 60                    | \$2,070,391 44         | \$527,257 71               | \$3,696,943 84 |

<sup>1</sup> Includes, garage, Hancock street yard, \$529.35. Artificial stone sidewalks, repairs and rebates, \$14,028.82. Asphalt and bitulithic repairs, \$15,291.31. Reconting and redressing old granite blocks, \$9,262.35. Street signs, \$85,941.91.

<sup>2</sup> Includes artificial stone sidewalks, new and repairs, \$28,495.95. Asphalt and bitulithic repairs, \$32,885.57. Wood block repairs, \$16,121.79.

## SCHEDULE A.

## EXPENDITURES FOR FISCAL YEAR 1927.

|  |                     |
|--|---------------------|
| Salary of division engineer (part of)  | \$3,750 00          |
| Salaries of office clerks and stenographers  | 13,993 96           |
| Salaries of assistant engineers (office work)  | 20,269 32           |
| Salaries of permit office clerks   | 15,056 50           |
| Salaries of permit office inspectors   | 19,517 10           |
| Salaries of engineering inspectors (office work)   | 18,362 52           |
| Salaries of district inspectors  | 1,855 03            |
| Salary of medical inspector (part of)  | 400 00              |
| Medical attendance on injured employees (outside)  | 461 00              |
| Salary of general foreman  | 3,054 96            |
| Salary of chief veterinarian (part of)   | 500 00              |
| Salary of inspector of horses  | 1,603 29            |
| Salary of constable and inspector  | 2,239 15            |
| Pensions paid to veterans (retired)  | 4,893 64            |
| Pensions paid to laborers (retired)  | 12,284 28           |
| Compensation allowed injured employees   | 3,446 28            |
| Vacations allowed laborers, mechanics, etc.  | 38,429 31           |
| Holidays not including holidays charged to street accounts   | 88,169 49           |
| Military duty  | 130 00              |
| Postage  | 207 33              |
| Printing   | 2,959 22            |
| Stationery   | 507 65              |
| Traveling expenses, car fares, etc.  | 1,237 81            |
| Engineering supplies and incidentals   | 2,110 02            |
| Stationery   | \$547 57            |
| Printing   | 620 87              |
| Postage  | 102 88              |
| Transit repairs  | 143 67              |
| Miscellaneous  | 695 03              |
| Laboratory, salaries, supplies, etc.   | 1,239 49            |
| Artificial stone sidewalks, new and repairs by department force. (See reconstructing and repairing streets by contract)                        | 28,495 95           |
| Asphalt and bitulithic pavement repairs. Temporary repairs, labor, teaming, materials. (See reconstructing and repairing streets by contract), | 32,885 57           |
| Brick block repairs, labor, teaming, materials   | 488 45              |
| Wood block repairs, labor, teaming, materials  | 16,121 79           |
| Crosswalks repaired, not included elsewhere  | 1,155 68            |
| Fence repairs  | 4,779 09            |
| <i>Carried forward</i>   | <u>\$340,603 88</u> |

|  |           |       |
|--|-----------|-------|
| <i>Brought forward</i> . . . . .   | \$340,603 | 88    |
| Plankwalk repairs . . . . .  | 1,717     | 21    |
| Edgestone, sidewalks and gutters (new) not<br>included elsewhere . . . . .   | 18,862    | 57    |
| Rent of land, wharves, etc. . . . .  | 2,775     | 00    |
| Expense of stables, including<br>drivers, feeders, fodder, horse-<br>shoeing, repairs to harnesses,<br>wagons, carts, etc. . . . .   | \$138,116 | 94    |
| Amount earned by department<br>teams . . . . .   | 120,260   | 13    |
|  |           | <hr/> |
|  | 17,856    | 81    |
| Electric lighting at yards and stables . . . . .   | 1,327     | 64    |
| Gas lighting at yards and stables . . . . .  | 321       | 57    |
| Fuel, for heating offices, buildings and stables . . . . .   | 3,930     | 26    |
| Electric appliances, labor and materials, yards<br>and stables . . . . .   | 149       | 83    |
| Rent of towels . . . . .   | 178       | 20    |
| Stoves, pipes, grates, etc. . . . .  | 50        | 00    |
| Telephone rentals and tolls . . . . .  | 2,062     | 04    |
| Ice . . . . .  | 186       | 60    |
| Signs, making, repairing, putting up, etc. . . . .   | 31,091    | 34    |
| Tools, hardware, etc., new, cost of repairing, etc. . . . .  | 39,671    | 14    |
| Oil for lighting around defects, etc. . . . .  | 1,585     | 16    |
| Expenses of yards, including salaries of foreman,<br>clerks, yardmen, watchman, tool wagons, etc.,<br>Repairs of yard buildings, stables, sheds, shanties,<br>etc. . . . . | 66,143    | 84    |
|  | 15,741    | 36    |
| Sanding icy and slippery streets . . . . .   | 1,576     | 91    |
| Chests for Central Office, making of . . . . .   | 120       | 47    |
| Premium on surety bonds . . . . .  | 12        | 00    |
| Traverse Street subway . . . . .   | 1,477     | 00    |
| Placing lanterns on silent policemen . . . . .   | 4,433     | 00    |
| Repairs to and inspection of typewriters and<br>adding machines . . . . .  | 62        | 45    |
| Repairs to snow dumps . . . . .  | 1,070     | 10    |
| Work done and materials furnished individuals,<br>corporations, etc. . . . .   | 5,617     | 51    |
| Furniture and repairs . . . . .  | 12        | 00    |
| Miscellaneous . . . . .  | 1,779     | 95    |
| Steam rollers; cost of operation,<br>repairs, supplies, etc. . . . .   | \$25,710  | 59    |
| Amount earned . . . . .  | 20,436    | 75    |
|  |           | <hr/> |
|  | 5,273     | 84    |
| Work done and materials furnished other services<br>and departments . . . . .  | 6,276     | 79    |
| Buffalo, Springfield steam roller . . . . .  | 6,950     | 00    |
| Asphalt plant, South End District . . . . .  | 8,571     | 90    |
| Automobiles, one Walter truck . . . . .  | 9,450     | 00    |
|  |           | <hr/> |
| <i>Carried forward</i> . . . . .   | \$596,938 | 37    |

|  |                     |
|--|---------------------|
| <i>Brought forward</i> . . . . .   | \$596,938 37        |
| Stone crusher, South End District, operating supplies, etc. . . . .                      | 2,375 43            |
| Garage, Albany street, employees' wages, fuel, gasolene, supplies, repairs, etc. . . . . | 51,331 71           |
| Garage, Hancock street, employees' wages, fuel gasolene, supplies, repairs, etc. . . . . | 13,124 60           |
| Total . . . . .  | <u>\$663,770 11</u> |

## Credits:

|  |                   |                     |
|--|-------------------|---------------------|
| Amounts earned by concrete mixers, snow-loaders and tractors . . . . . | \$13,385 89       |                     |
| Automobiles:   |                   |                     |
| Amount earned by trucks . . . . .                                      | \$160,216 13      |                     |
| Cost of operation, repairs, supplies, equipment . . . . .              | 103,217 06        |                     |
|  | <u>57,099 07</u>  |                     |
| Asphalt plant, Brighton:   |                   |                     |
| Value of material used on streets . . . . .                            | 61,573 54         |                     |
| Operating expenses, repairs, etc. . . . .                              | 42,195 94         |                     |
|  | <u>19,377 60</u>  |                     |
| Stock:   |                   |                     |
| Materials delivered on streets . . . . .                               | \$175,706 55      |                     |
| Cost of materials . . . . .  | \$106,711 65      |                     |
| Labor handling and teaming . . . . .                                   | 22,345 06         |                     |
|  | <u>129,056 71</u> |                     |
|  | <u>46,649 84</u>  |                     |
|  |                   | <u>\$136,512 40</u> |
| Total . . . . .  |                   | <u>\$527,257 71</u> |

## Snow and Ice Removed by Contract from January 1, 1927, to December 31, 1927.

| DISTRICT. | Contractor.  | Number of Loads.      | Cubic Yards. | Cost per Cubic Yard. | Total Cost. | Remarks.                         |
|-----------|--|-----------------------|--------------|----------------------|-------------|----------------------------------|
| 1.....    | Hugh Nawn, Inc.....<br>J. J. McCarthy & Co.....          | 4,405<br>No work.     | 40,039½      | \$0 55<br>55         | \$22,021 73 | 1926 contract.<br>1927 contract. |
| 2.....    | Leo J. Nawn, Inc.....<br>Leo J. Nawn, Inc.....           | 801<br>No work.       | 8,308½       | 55<br>55             | 4,569 68    | 1926 contract.<br>1927 contract. |
| 3.....    | B. E. Grant Company.....<br>B. E. Grant Company.....     | 2,535<br>No work.     | 23,629       | 55<br>55             | 12,995 96   | 1926 contract.<br>1927 contract. |
| 4.....    | Coleman Brothers.....<br>B. E. Grant Company.....        | 3,348<br>No work.     | 33,080       | 60<br>55             | 19,848 00   | 1926 contract.<br>1927 contract. |
| 5.....    | Ormac Company.....<br>Ormac Company.....                 | 3,073<br>No work.     | 26,262       | 60<br>60             | 16,757 20   | 1926 contract.<br>1927 contract. |
| 6.....    | A. G. Tomasello & Son.....<br>A. G. Tomasello & Son..... | 4,476<br>No work.     | 38,243½      | 65<br>65             | 25,058 28   | 1926 contract.<br>1927 contract. |
| 7.....    | M. F. Gaddis.....<br>J. J. Loonie.....                   | 2,548<br>No work.     | 20,808       | 50<br>55             | 10,404 00   | 1926 contract.<br>1927 contract. |
| 8.....    | J. J. McCue Company.....<br>J. B. O'Rourke.....          | 5,284<br>No work.     | 46,454½      | 50<br>50             | 23,227 25   | 1926 contract.<br>1927 contract. |
| 9.....    | Coleman Brothers.....<br>J. A. Singarella.....           | 2,360<br>No work.     | 17,786½      | 60<br>65             | 10,771 90   | 1926 contract.<br>1927 contract. |
| 10.....   | J. J. McCarthy & Co.....<br>D. M. Biggs & Co.....        | 2,887<br>No work.     | 26,010½      | 50<br>50             | 13,005 25   | 1926 contract.<br>1927 contract. |
| 11.....   | D. M. Biggs & Co.....<br>E. J. Byrne.....                | No work.<br>No work.  |              | F. Acct.<br>58       |             | 1926 contract.<br>1927 contract. |
| 12.....   | James Byrne.....<br>A. DeStefano & Son, Inc.....         | 1,980<br>No work.     | 16,106½      | 60<br>54             | 9,663 90    | 1926 contract.<br>1927 contract. |
| 13.....   | Coleman Brothers.....<br>No contract.....                | 4,339<br>No contract. | 38,059       | 60                   | 22,835 40   | 1926 contract.<br>1927 contract. |

**The Number of Loads of Snow Removed from January 1, 1927,  
to December 31, 1927.**

| DISTRICT.         | Single.* | Double.† | Auto<br>Truck.‡ | Cubic<br>Yards. | Cost.§       |
|-------------------|----------|----------|-----------------|-----------------|--------------|
| South Boston..... | 954      | 1,002    | 3,384           | 28,822          | \$20,158 22  |
| East Boston.....  | 5,102    | 2,703    | 167             | 19,315          | 14,537 67    |
| Charlestown.....  | 2,706    | 683      | 782             | 12,153          | 17,838 29    |
| Brighton.....     |          |          | 1,974           | 20,793          | 20,882 54    |
| West Roxbury..... | 588      | 1,677    | 3,724           | 29,199          | 38,301 72    |
| Dorchester.....   | 1,194    | 265      | 3,178           | 22,251          | 23,174 78    |
| Roxbury.....      | 1,946    | 612      | 1,119           | 17,461          | 49,291 76    |
| South End.....    | 168      |          | 8,607           | 74,408          | 49,804 20    |
| Ashmont.....      | 5,481    | 2,508    | 1,093           | 23,407          | 21,351 18    |
| North End.....    | 287      |          | 1,531           | 12,648          | 2,826 60     |
| Hyde Park.....    | 515      | 735      | 1,614           | 6,698           | 11,043 92    |
| Totals.....       | 18,941   | 10,185   | 27,173          | 267,155         | \$269,210 88 |

\* Single loads, 2 cubic yards.

† Double loads, 3 cubic yards.

‡ Auto truck loads, 3 cubic yards to 14 cubic yards.

§ Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.  
Also automobile snow plows furnished by contractors.

**Loads of Dirt and Street Cleaning Removed from January 1,  
1927, to December 31, 1927.**

| DISTRICT.         | Single. * | Double.† | Auto<br>Truck. § | Cubic<br>Yards. |
|-------------------|-----------|----------|------------------|-----------------|
| South Boston..... | 52        | 151      | 868              | 5,562           |
| East Boston.....  | 123       | 61       | —                | 145             |
| Charlestown.....  | 238       | —        | —                | 238             |
| Brighton.....     | 38        | 3        | 4,007            | 24,086          |
| West Roxbury..... | 1,420     | 3,270    | 1,458            | 16,708          |
| Dorchester.....   | 284       | 77       | 305              | 2,268           |
| Roxbury.....      | 2,752     | 1,019    | 753              | 9,308           |
| South End.....    | —         | —        | 16               | 96              |
| Ashmont.....      | 1,639     | 545      | 351              | 4,835           |
| North End.....    | —         | —        | —                | —               |
| Hyde Park.....    | 1,461     | 224      | 56               | 2,245           |
| Totals.....       | 8,007     | 5,350    | 7,814            | 65,593          |

\* Single loads, 1 cubic yard.

† Double loads, 2 cubic yards.

§ Auto truck loads, 6 cubic yards.

## New Edgestone and Brick Sidewalk Recapitulation for 1927.

| DISTRICT.                                 | Edgestone,<br>Linear<br>Feet. | Brick<br>Sidewalk,<br>Square<br>Yards. |
|---|-------------------------------|--|
| South Boston, Paving District, No. 1..... | 556                           | —                                      |
| East Boston, Paving District, No. 2.....  | 468                           | 28                                     |
| Charlestown, Paving District, No. 3.....  | 80                            | —                                      |
| Brighton, Paving District, No. 4.....     | 1,671                         | —                                      |
| West Roxbury, Paving District, No. 5..... | 1,303                         | —                                      |
| Dorchester, Paving District, No. 6.....   | 1,928                         | —                                      |
| Roxbury, Paving District, No. 7.....      | 1,331                         | 554                                    |
| South End, Paving District, No. 8.....    | 262                           | —                                      |
| Ashmont, Paving District, No. 9.....      | 137                           | —                                      |
| North End, Paving District, No. 10.....   | —                             | —                                      |
| Hyde Park, Paving District No. 11.....    | 623                           | —                                      |
| Totals.....                               | 8,359                         | 582                                    |

New Granolithic Sidewalks Laid by Department Forces  
During 1927.

| DISTRICT.         | Square<br>Feet. | Location of Work.                             |
|-------------------|-----------------|---|
| South Boston..... | —               | Chapman street, Beach street, Lawnwood place. |
| East Boston.....  | —               |   |
| Charlestown.....  | 10,809          |   |
| Brighton.....     | —               | St. Joseph street.                            |
| West Roxbury..... | 837             |   |
| Dorchester.....   | 702             | Melville avenue.                              |
| Roxbury.....      | 2,088           | Sunnyside street, Tremont street.             |
| South End.....    | 4,392           | Massachusetts avenue, Tremont street.         |
| Ashmont.....      | —               |   |
| North End.....    | —               |   |
| Hyde Park.....    | —               |   |
| Total.....        | 18,828          |   |



# PUBLIC WORKS DEPARTMENT — HIGHWAY DIVISION — PAVING SERVICE.

## Maintenance of Macadam Streets.

*Cost by Years of Resurfacing or Patching from February 1, 1923, to December 31, 1927.*

|   | 1923.        | 1924.        | 1925.        | 1926.        | 1927.        |
|---|--------------|--------------|--------------|--------------|--------------|
| Total length of macadam in miles.....                     | 351.25       | 347.63       | 343.50       | 340.24       | 335.02       |
| Total area of macadam in square yards.....                | 5,926,385    | 5,789,425    | 5,708,269    | 5,629,035    | 5,563,377    |
| Total cost of resurfacing of macadam *.....               | \$57,883 32  | \$40,032 79  | \$111,541 74 | \$100,246 23 | \$119,705 43 |
| Total cost of patching of macadam†.....                   | \$196,758 28 | \$251,026 22 | \$231,916 92 | \$305,664 95 | \$299,546 48 |
| Cost of resurfacing per mile over entire mileage.....     | \$164 79     | \$115 16     | \$324 72     | \$294 64     | \$356 94     |
| Cost of resurfacing per square yard over entire area..... | \$0 0097     | \$0 0069     | \$0 0195     | \$0 0178     | \$0 0215     |
| Length of macadam resurfaced yearly in miles.....         | 3.322        | 1.905        | 4.939        | 4.893        | 6.6506       |
| Cost per mile of macadam resurfaced yearly.....           | \$17,424 23  | \$21,014 58  | \$22,583 89  | \$20,487 64  | \$18,012 73  |
| Area of macadam resurfaced yearly in square yards.....    | 47,870       | 27,461       | 82,648       | 67,419       | 89,569       |
| Cost per square yard of macadam resurfaced yearly.....    | \$1 2091     | \$1 46       | \$1 34       | \$1 49       | \$1 337      |
| Area of macadam patched yearly in square yards.....       | 324,187      | 452,260      | 329,801      | 450,702      | 479,544      |
| Cost per square yard of macadam patched yearly.....       | \$0 6039     | \$0 555      | \$0 703      | \$0 678      | \$0 625      |
| Binders used in resurfacing (per cent):                   |              |              |              |              |              |
| Water.....  | .0000        | .0000        | .0000        | .0000        | .0000        |
| Tax preparation.....                                      | .0000        | .0000        | .0084        | .0000        | .0000        |
| Asphalt preparations.....                                 | 1.0000       | 1.0000       | .9916        | 1.0000       | 1.0000       |

\* By resurfacing is meant entire area of street excavated and resurfaced with not less than four inches of new material.

† By patching is meant scattered areas of depressions, etc., which are filled with new material from a depth of one half inch up, and in some cases blanket coated with bituminous binder.

398,747 square yards patched; 80,797 square yards asphalt blanket coat.

## STREET OPENINGS.

Under classes 1 and 2 of the schedule of permit fees, permits were issued for openings in public ways, as follows:

| TO WHOM ISSUED.                                  | Number of Permits. | Length of Feet. |
|--|--------------------|-----------------|
| Sewer and Water Service.....                     | 4,132              | 49,584          |
| Boston Consolidated Gas Company.....             | 1,778              | 44,450          |
| Boston Elevated Railway.....                     | 190                | 28,500          |
| Dedham and Hyde Park Gas Company.....            | 74                 | 1,850           |
| Edison Electric Illuminating Company.....        | 3,996              | 279,720         |
| Miscellaneous.....                               | 3,063              | 153,150         |
| New England Telephone and Telegraph Company..... | 745                | 55,875          |
| Emergency permits used and returned.....         | 642                | 16,050          |
|  | 14,620             | 629,179         |

Making a total length of openings approximately 119 miles.

Total of all permits issued 22,516.

Permits for other than street openings have been issued as follows:

|  |              |
|--|--------------|
| Cleaning snow from roof . . . . .                | 15           |
| Erecting and repairing awnings . . . . .         | 507          |
| Erecting and repairing buildings . . . . .       | 1,236        |
| Driving cattle . . . . .                         | 2            |
| Painting or minor repairs on buildings . . . . . | 4,059        |
| Moving buildings in streets . . . . .            | 13           |
| Feeding horses in streets . . . . .              | 25           |
| Placing signs flat on buildings . . . . .        | 1,229        |
| Raising and lowering safes etc. . . . .          | 33           |
| Emergency for above . . . . .                    | 490          |
| Special permits . . . . .                        | 287          |
|  | <u>7,896</u> |

The revenue from issuing permits amounted to \$26,997.33.

Of this amount \$20,753.08 was deposited with the City Collector and \$6,244.25 was billed to public service corporations.

## BONDS.

There are now on file 2,724 surety bonds, in amount of one, three and twenty thousand dollars, covering the city against claims for damages etc., through the use of permits.

## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "GRANOLITHIC SIDEWALKS."

| STREET.                            | From  | To   | Contractor.                | Pavement. | Length, Linear Feet. | Area, Square Feet. | Total Cost. | Amount Paid to Contractor. | MATERIALS. |                |           |                 | EXPENSES.      |           |              |             | WORK DONE.      |              |                |                         |                         | REMARKS. |                                  |                           |                                 |                     |                               |           |                           |
|------------------------------------|---|--|----------------------------|-----------|----------------------|--------------------|-------------|----------------------------|------------|----------------|-----------|-----------------|----------------|-----------|--------------|-------------|-----------------|--------------|----------------|-------------------------|-------------------------|----------|----------------------------------|---------------------------|---------------------------------|---------------------|-------------------------------|-----------|---------------------------|
|                                    |   |  |                            |           |                      |                    |             |                            | EDGESTONE. | GRANITE BLOCK. |           | SIDEWALK BRICK. | MISCELLANEOUS. |           | Engineering. | Inspection. | Traveling, etc. | Advertising. | Miscellaneous. | Excavation and Filling. | Edgestone Set and Reel. |          | Brick Sidewalk Laid and Related. | Rough Paved and Improved. | Artificial Stone Sidewalk Laid. | Miscellaneous.      |                               |           |                           |
|                                    |   |  |                            |           |                      |                    |             |                            |            | Cost.          | Quantity. |                 | Cost.          | Quantity. |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Cost.                         | Quantity. | Cost.                     |
| 1 Academy Hill road.               | Washington street                                     | No. 46.  | Charles Struzycki          |           | 1,766                | 5,541              | \$1,367 40  | \$1,035 27                 | \$13 00    |                |           |                 | \$114 70       |           |              | \$224 52    | \$89 71         | \$7 60       | \$2 00         |                         |                         | 6        | 538                              |                           | 10                              | 5,937               | Completed August 17, 1927.    |           |                           |
| 2 Aldie street (south side)        | Franklin street                                       | Everett street                                       | Henry F. Malley            |           |                      |                    | 817 43      | 729 90                     |            |                |           |                 |                |           | 86 84        |             | 60 66           |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed December 14, 1926.  |           |                           |
| 3 Ashby street.                    | Carruth street  | Adams street   | J. J. McCarthy Company     |           | 1,820                | 12,145             | 6,946 92    | 4,221 91                   | 2,350 34   | 1,567          |           |                 |                |           | 213 30       | 125 82      | 5 55            |              |                |                         |                         |          |                                  | 35                        | 12,145                          | Work not completed. |                               |           |                           |
| 4 Ashmont street (south side)      | Carruth street  | Parrott street                                       |                            |           |                      |                    | 54 98       |                            |            |                |           |                 |                |           | 53 00        |             | 1 08            |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 28, 1927.     |           |                           |
| 5 Austin street.                   | Fort avenue   | Hubbard avenue                                       |                            |           |                      |                    | 20          |                            |            |                |           |                 |                |           |              |             | 20              |              |                |                         |                         |          |                                  |                           |                                 |                     | Work not started.             |           |                           |
| 6 Beeth Glen street                | At No. 458 and No. 460.                               | Charles street                                       | Leo J. Nawn, Inc.          |           |                      |                    | 447 88      | 447 88                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 7 Blue Hill avenue                 | On Boston Common side Tremont street                  |  | John McCourt Company.      |           |                      |                    | 880 50      | 880 50                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 8 Boylston street                  |   |  |                            |           |                      |                    |             |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 9 Brookline avenue                 | At No. 61 and Newbury street, corner Brookline avenue |  | Leo J. Nawn, Inc.          |           |                      |                    | 621 07      | 621 07                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 10 Carruth street                  | Ashmont street  | About 100 feet southerly Webster square              | J. J. McCarthy Company     |           |                      |                    | 219 01      |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | April 8, 1927.                |           |                           |
| 11 Central avenue                  | River street  | Webster square                                       |                            |           |                      |                    | 172 53      |                            |            |                |           |                 |                |           | 168 85       |             | 2 60            | 1 08         |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 12 Chadwick street                 | Ambridge street                                       | Yemou street   | The Homes Company          |           |                      |                    | 842 74      | 842 74                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 13 Chestnut Hill avenue            | Eulita terrace  | Court House driveway                                 | Joseph A. Sprisler         |           |                      |                    | 662 90      |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 14 Chickatawut street (south side) | Neposet avenue  | Glide street   | Charles Struzycki.         |           | 1,364                | 5,801              | 3,126 38    | 1,545 98                   | 1,360 17   | 1,036          |           |                 |                |           | 122 76       | 90 62       | 4 85            | 2 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 2, 1927.   |           |                           |
| 15 Clayton street                  | Dickens street  | Fenton street  |                            |           |                      |                    | 751 01      |                            |            |                |           |                 |                |           | 149 15       |             | 5 20            | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 16 Cornell street                  | Washington street                                     | Orange street  |                            |           |                      |                    | 152 35      |                            |            |                |           |                 |                |           | 51 30        |             | 3 20            |              |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 17 Corwin street                   | Arcadia street  | Westville street                                     | J. J. McCarthy Company     |           | 226                  | 1,742              | 34 38       | 33 36                      |            |                |           | \$35 00         |                |           |              |             |                 |              |                | \$325 00                |                         |          |                                  | 212                       | 30                              | 13                  | 71                            | 930       | Completed March 31, 1927. |
| 18 Cushing avenue                  | At No. 51.  | Dorchester street                                    | John F. Shea & Co.         |           | 97                   | 570                | 154 04      | 123 90                     | 9 95       |                |           |                 |                |           | 18 73        |             | 95              | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 22, 1927.  |           |                           |
| 19 DeWolf street                   | Hancock street  | Greenwood street                                     | Charles Struzycki          |           | 306                  | 2,957              | 854 14      | 726 22                     |            |                |           |                 |                |           | 53 48        | 60 39       | 4 05            | 1 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed October 6, 1927.    |           |                           |
| 20 Dilbigham street.               | Savin Hill avenue.                                    | End of street  | Leo J. Nawn, Inc.          |           |                      |                    | 1,392 10    | 912 42                     | 479 00     | 370            |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 21 Ellington street                | Erse street   | Sagamore street                                      | S. J. Tomassello           |           |                      |                    | 452 75      | 430 45                     |            |                |           |                 |                |           | 22 00        |             | 30              |              |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 22 Elton street.                   | Dorchester avenue                                     |  | Henry F. Malley            |           | 519                  | 5,226              | 3,473 84    | 1,906 91                   | 1,142 29   | 751            | \$334 50  | 11,150          |                |           | 65 02        | 17 26       | 2 00            |              | \$ 5 50        |                         |                         |          | 869                              | 284                       | 5,226                           | Work done in 1926.  |                               |           |                           |
| 23 Evans street                    | In front of Nos. 31, 33, 35                           | Linden street  |                            |           |                      |                    | 10 00       |                            |            |                |           |                 |                |           | 10 00        |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 24 Farrington avenue               | Harvard avenue  |  | Henry F. Malley            |           |                      |                    | 248 61      | 236 61                     |            |                |           |                 |                |           | 12 00        |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 23, 1926.  |           |                           |
| 25 Geneva avenue                   | In front of No. 386                                   | Chayton street                                       | Charles Struzycki          |           | 5 34                 | 5,980              | 3,373 60    | 1,749 84                   | 1,311 44   | 1,024          |           |                 |                |           | 240 45       | 58 07       | 12 20           | 1 00         |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 26 Granger street                  | Duncan street.  |  | Leo J. Nawn, Inc.          |           |                      |                    |             | 738 00                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 2, 1927.   |           |                           |
| 27 Hemenway street                 | At Boylston street and Public Alley.                  |  |                            |           |                      |                    |             |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 28 Holmes avenue                   | At No. 20   |  |                            |           |                      |                    | 3 05        |                            |            |                |           |                 |                |           | 2 00         |             | 1 05            |              |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 29 Jerome street                   | At No. 8  | Rosewell street                                      | John F. Shea & Co.         |           | 51                   | 307                | 57 80       | 67 13                      |            |                |           |                 |                |           | 7 33         | 12 14       | 20              |              |                |                         |                         |          |                                  |                           | 3                               | 307                 | Completed November 22, 1927.  |           |                           |
| 30 Kittredge street                | Washington street                                     | Evans way  | Martine DeMatteo           |           |                      |                    | 1,163 82    | 1,147 40                   |            |                |           |                 |                |           | 7 33         |             | 20              | 1 00         |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 31 Louis Frong street              | Huntington avenue                                     | Rossoli street                                       | Henry F. Malley            |           | 448                  | 5,723              | 2,339 54    | 1,999 48                   |            |                |           |                 | \$21 00        |           | 175 01       | 152 60      | 3 45            |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 27, 1927.     |           |                           |
| 32 Main street.                    | Alcott street.  | Easton street  | Charles Struzycki          |           | 375                  | 4,649              | 2,027 84    | 1,022 87                   | 786 21     | 626            |           |                 |                |           | 167 09       | 46 27       | 4 40            | 1 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed August 30, 1927.    |           |                           |
| 33 Maple street                    | Oak street  | Pine street  |                            |           |                      |                    | 83 30       |                            |            |                |           |                 |                |           | 61 60        |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1926.               |           |                           |
| 34 Marcella street                 | Centre street   | Highland street                                      | John F. Shea & Co.         |           | 1,127                | 7,010              | 3,550 40    | 2,141 16                   | 648 88     |                |           | 60 00           |                |           | 478 09       | 206 00      | 15 10           | 1 08         |                |                         |                         |          |                                  |                           |                                 |                     | Completed December 3, 1927.   |           |                           |
| 35 Mattakeent street.              | River street  | Edgewater Drive.                                     | Charles Struzycki          |           |                      |                    | 4,241 66    | 2,284 67                   | 1,657 87   | 1,322          |           |                 |                |           | 189 88       | 72 14       | 6 80            | 1 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 3, 1927.   |           |                           |
| 36 Newbert street                  | Elm street  | John A. Andrew street                                | Leo J. Nawn, Inc.          |           | 690                  | 7,233              | 502 05      |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 37 Oak street (south side)         | Maple street  | 160 feet westerly                                    |                            |           |                      |                    | 7 30        |                            |            |                |           |                 |                |           | 7 00         |             | 30              |              |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 38 Park street                     | Alpha road  | 200 feet westerly                                    | Daniel Coleman             |           |                      |                    | 580 82      | 638 39                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 3, 1927.   |           |                           |
| 39 Park street                     | No. 339 (Dorchester).                                 | Adams street   | Miller Contracting Company |           |                      |                    | 630 37      | 636 37                     | 245 43     | 200            |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed 1927.               |           |                           |
| 40 Parkman street                  | No. 331   | Short street   | J. J. McCarthy Company     |           |                      |                    | 601 80      | 564 10                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Work not completed.           |           |                           |
| 41 Piggin road                     | Dorchester avenue                                     | Brookline avenue                                     |                            |           |                      |                    | 115 85      |                            |            |                |           |                 |                |           | 17 00        |             | 70              |              |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 42 Pine street (northeast side).   | Hyde Park avenue                                      | Brookline avenue                                     |                            |           |                      |                    | 108 53      |                            |            |                |           |                 |                |           | 109 55       |             | 80              | 8 50         |                |                         |                         |          |                                  |                           |                                 |                     | Work not done.                |           |                           |
| 43 Pratt street                    | Hyde Park avenue                                      | Maple street   | J. J. McCarthy Company     |           | 1,058                | 13,183             | 3,142 26    | 2,392 60                   | 330 84     | 173            |           |                 |                |           | 8 00         |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 44 Rail street                     | Hancock street  | Ashford street                                       |                            |           |                      |                    | 10 00       |                            |            |                |           |                 |                |           | 204 46       | 108 41      | 8 95            | 7 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed November 12, 1927.  |           |                           |
| 45 Robinson street                 | Ware street   | Draper street  |                            |           |                      |                    | 10 00       |                            |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 46 Rockland street                 | Adams street  |  | M. D. Russo                |           |                      |                    | 421 02      | 400 02                     |            |                |           |                 |                |           | 15 00        |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed in 1927.            |           |                           |
| 47 Rockview street.                | In front of Nos. 50 and 82.                           | 160 feet southerly Forest Hill street.               | The Homes Company          |           |                      |                    | 121 57      | 121 57                     |            |                |           |                 |                |           |              |             |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 18, 1927.     |           |                           |
| 48 Rosemore road                   | St. John street                                       | Rockview street.                                     | Henry F. Malley            |           |                      |                    | 312 66      | 312 06                     | 2,878 62   | 1,884          |           |                 |                |           | 161 90       | 54 31       |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 20, 1927.     |           |                           |
| 49 St. John street                 | Washington street                                     | Centre street  | S. J. Tomassello.          |           | 1,459                | 17,537             | 9,438 72    | 6,343 89                   |            |                |           |                 |                |           | 129 52       | 93 83       | 1 00            |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 20, 1927.     |           |                           |
| 50 Seaboyer street.                | At No. 15.  |  | Henry F. Malley            |           | 1,114                | 10,713             | 3,313 25    | 2,715 40                   | 211 60     |                |           |                 |                |           | 129 52       | 93 83       | 1 00            |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 20, 1927.     |           |                           |
| 51 Savin Hill avenue               | At No. 105, 102, 100                                  | John A. Andrew street                                | The Homes Company          |           |                      |                    | 452 63      | 452 63                     |            |                |           |                 |                |           | 161 90       | 54 31       |                 |              |                |                         |                         |          |                                  |                           |                                 |                     | Completed April 20, 1927.     |           |                           |
| 52 Sedgwick street                 | South street  | Bridge over New York, New Haven & Hartford Railroad. | John F. Shea & Co.         |           | 233                  | 1,604              | 425 31      | 338 45                     | 10 00      |                |           |                 |                |           | 43 44        | 29 33       | 2 40            | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Completed September 24, 1927. |           |                           |
| 53 Summer street (north side)      | At No. 15.  |  | Charles Struzycki          |           | 1,312                | 8,969              | 4,401 61    | 2,880 20                   | 1,242 28   | 969            |           |                 |                |           | 40 16        | 157 82      | 14 15           | 2 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed October 20, 1927.   |           |                           |
| 54 Summer street                   | Bridge over A street                                  |  | Joseph A. Singarella       |           | 374                  | 4,402              | 1,534 75    | 1,171 38                   |            |                |           |                 |                |           | 275 34       | 75 88       | 4 40            | 7 75         |                |                         |                         |          |                                  |                           |                                 |                     | Completed August 1, 1927.     |           |                           |
| 55 Summer street                   | East Cottage street                                   | Annabell street                                      | John F. Shea & Co.         |           | 676                  | 6,510              | 1,895 55    | 650 82                     | 933 23     | 737            |           |                 |                |           | 178 23       | 129 07      | 3 10            | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Unfinished.                   |           |                           |
| 56 Sunset street                   | Hillside street                                       | Parker Hill avenue                                   | S. J. Tomassello           |           |                      |                    | 610 29      | 354 00                     |            |                |           |                 |                |           | 13 10        |             | 6 10            |              | \$237 00       |                         |                         |          |                                  |                           |                                 |                     | Work done in 1926.            |           |                           |
| 57 Tabbot avenue (west side)       | 130 feet north of Trent street.                       | Metropolitan avenue                                  | John F. Shea & Co.         |           | 1,165                | 10,730             | 2,728 97    | 2,389 58                   | 10 00      |                |           |                 |                |           | 168 14       | 155 51      | 3 75            | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Completed October 29, 1927.   |           |                           |
| 58 Thatcher street                 | Hyde Park avenue                                      | 200 feet north of Ashmont street                     |                            |           |                      |                    | 7 28        |                            |            |                |           |                 |                |           | 3 00         |             | 3 20            | 1 08         |                |                         |                         |          |                                  |                           |                                 |                     | Work not started.             |           |                           |
| 59 Tuttle street.                  | Savin Hill avenue                                     | 250 feet north (east side)                           | John F. Shea & Co.         |           | 276                  | 1,906              | 400 35      | 375 84                     |            |                |           |                 |                |           | 13 41        | 9 61        | 40              | 1 09         |                |                         |                         |          |                                  |                           |                                 |                     | Completed September 23, 1927. |           |                           |
| 60 Washington street               | Armadine street                                       | 55 feet southerly                                    | The Homes Company          |           |                      |                    | 747 12      |                            |            |                |           |                 |                |           | 124 30       | 47 95       | 7 50            | 2 00         |                |                         |                         |          |                                  |                           |                                 |                     | Completed September 23, 1927. |           |                           |
| 61 West Tremont street             | Washington street                                     | Whitfield street                                     | Charles Struzycki          |           |                      |                    | 1,399 27    | 1,187 07                   | 26 85      | 19             |           |                 |                |           | 124 30       | 47 95       | 7 50            | 2            |                |                         |                         |          |                                  |                           |                                 |                     |                               |           |                           |

1 Credit, old brick, sidewalk, \$14.70

1 Credit, old brick, sidewalk, \$35.

1 Teaming, \$5.50

1 Credit, old brick, sidewalk, \$21.

1 Installing drain.

1 Credit, old brick, sidewalk, \$37.50.

1 Teaming, \$120; steam roller, \$117.





## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "HIGHWAYS, MAKING OF."

|                   |  |                    |                          |                |                      |                     |             |                            |            | MATERIALS. |                |           |                 | EXPENSES. |                |           |              | WORK DONE.  |                 |              |                |                         |           |         |           |         |           | PROGRESS. |                |                            |    |
|-------------------|--|--------------------|--------------------------|----------------|----------------------|---------------------|-------------|----------------------------|------------|------------|----------------|-----------|-----------------|-----------|----------------|-----------|--------------|-------------|-----------------|--------------|----------------|-------------------------|-----------|---------|-----------|---------|-----------|-----------|----------------|----------------------------|----|
| STREET.           | FROM                                     | TO                 | CONTRACTOR.              | PAVEMENT.      | LENGTH, LINEAR FEET. | AREA, SQUARE YARDS. | TOTAL COST. | AMOUNT PAID TO CONTRACTOR. | DOCKSTONE. |            | GRANITE BLOCK. |           | SIDEWALK BRICK. |           | MISCELLANEOUS. |           | ENGINEERING. | INSPECTION. | TRAVELING, ETC. | ADVERTISING. | MISCELLANEOUS. | REPAIRING AND PATCHING. |           | PAVING. |           | PAVING. |           | PAVING.   |                | MISCELLANEOUS.             |    |
|                   |  |                    |                          |                |                      |                     |             |                            | COST.      | QUANTITY.  | COST.          | QUANTITY. | COST.           | QUANTITY. | COST.          | QUANTITY. |              |             |                 |              |                | COST.                   | QUANTITY. | COST.   | QUANTITY. | COST.   | QUANTITY. | COST.     | QUANTITY.      |                            |    |
| 1. Adams street.  | Franklin street.                         | Esposito street.   | A. DeStefano & Son, Inc. | Short asphalt. | 630                  | 2,030               | 3,721 70    | \$510 37                   | \$1,666 37 | 1,350      |                |           |                 |           |                |           | 555 27       | 107 18      | 85 00           | \$12 75      |                | 810                     |           |         |           |         |           |           |                | Work not done.             | 1  |
| 2. Adams street.  | Commonwealth avenue.                     | Adams street.      | A. DeStefano & Son, Inc. | Short asphalt. | 100                  |                     | 187 23      |                            |            |            |                |           |                 |           |                |           | 115 70       | 21 00       | 103 18          |              |                |                         |           |         |           |         |           |           |                | Unfinished.                | 2  |
| 3. Adams street.  | Lincoln street.                          | Holton street.     | M. F. Gaddis             | Short asphalt. | 1,070                | 3,109               | 15,251 40   | 12,221 03                  | 2,383 50   | 1,873      | \$0 00         |           |                 |           |                |           | 135 70       | 271 09      | 8 53            | 5 10         | \$112 00       | 1,433                   | 456       |         | 3,191     | 12,252  |           |           |                | Completed August 31, 1927. | 3  |
| 4. Adams street.  | South of Adams street.                   | Lincoln street.    | M. F. Gaddis             | Short asphalt. | 218                  | 766                 | 3,823 20    | 3,714 35                   | 492 85     | 362        |                |           |                 |           |                |           | 148 17       | 164 17      | 253 78          |              |                | 300                     | 456       |         | 700       | 3,044   |           | 433 00    | Work not done. | 4                          |    |
| 5. Adams street.  | Washington street and Washington avenue. | Washington street. | A. DeStefano & Son, Inc. | Short asphalt. | 100                  |                     | 10 00       |                            |            |            |                |           |                 |           |                |           | 10 00        |             | 10 00           |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 5  |
| 6. Adams street.  | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 6  |
| 7. Adams street.  | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 7  |
| 8. Adams street.  | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 8  |
| 9. Adams street.  | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 9  |
| 10. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 10 |
| 11. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 11 |
| 12. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 12 |
| 13. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 13 |
| 14. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 14 |
| 15. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 15 |
| 16. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 16 |
| 17. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 17 |
| 18. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 18 |
| 19. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 19 |
| 20. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 20 |
| 21. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 21 |
| 22. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 22 |
| 23. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 23 |
| 24. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 24 |
| 25. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 25 |
| 26. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 26 |
| 27. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 27 |
| 28. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 28 |
| 29. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 29 |
| 30. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 30 |
| 31. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 31 |
| 32. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 32 |
| 33. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 33 |
| 34. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 34 |
| 35. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 35 |
| 36. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 36 |
| 37. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 37 |
| 38. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 38 |
| 39. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 39 |
| 40. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 40 |
| 41. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 41 |
| 42. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 42 |
| 43. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 43 |
| 44. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 44 |
| 45. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 45 |
| 46. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 46 |
| 47. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 47 |
| 48. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 48 |
| 49. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    | 3,334 00                   | 130 00     | 100        |                |           |                 |           |                |           | 100 00       |             | 100 00          |              |                |                         |           |         |           |         |           |           |                | Work not done.             | 49 |
| 50. Adams street. | South of Washington street.              | Washington street. | M. F. Gaddis             | Short asphalt. | 240                  | 716                 | 3,464 00    |                            |            |            |                |           |                 |           |                |           |              |             |                 |              |                |                         |           |         |           |         |           |           |                |                            |    |



# PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "SPECIAL APPROPRIATIONS."

| 1  | STREET.   | From              | To                                       | Contractor.  | Pavement.   | Length,<br>Linear<br>Feet. | Area,<br>Square<br>Yards. | Total Cost. | Amount<br>Paid to<br>Contractor.              | MATERIALS. |           |                |           |                 |           |                |           | EXPENSES.    |             |                 |              |                | WORK DONE                  |                            |                                  |                               |                                    |                | PROGRESS.  |                 |                 |                  |
|----|---|-------------------|--|--|---|----------------------------|---------------------------|-------------|---|------------|-----------|----------------|-----------|-----------------|-----------|----------------|-----------|--------------|-------------|-----------------|--------------|----------------|----------------------------|----------------------------|----------------------------------|-------------------------------|------------------------------------|----------------|------------|-----------------|-----------------|------------------|
|    |   |                   |  |  |   |                            |                           |             |   | EDGESTONE. |           | GRANITE BLOCK. |           | SIDEWALK BRICK. |           | MISCELLANEOUS. |           | Engineering. | Inspection. | Traveling, etc. | Advertising. | Miscellaneous. | Excavation and<br>Filling. | Edgestone Set<br>and Rest. | Brick Sidewalk<br>and<br>Refrid. | Roadway Paved<br>and Repaved. | Artificial Stone<br>Sidewalk Laid. | Miscellaneous. |            |                 |                 |                  |
|    |   |                   |  |  |   |                            |                           |             |   | Cost.      | Quantity. | Cost.          | Quantity. | Cost.           | Quantity. | Cost.          | Quantity. |              |             |                 |              |                |                            |                            |                                  |                               |                                    |                |            | Cubic<br>Yards. | Linear<br>Feet. | Square<br>Yards. |
| 1  | Cambridge and Court streets.                    |                   |  |  |   |                            |                           | \$9,204 10  |   | \$75 44    |           | \$955 50       | 29,050    | \$42 00         | 35,000    | \$704 80       | \$93 14   |              |             |                 | \$4,718 10   |                |                            |                            |                                  |                               |                                    |                |            |                 |                 |                  |
| 2  | Causeway, Lowell and Nashua streets.            |                   |  |  |   |                            |                           | 87 06       |   |            |           |                |           |                 |           |                | 87 95     |              |             |                 |              |                |                            |                            |                                  |                               |                                    |                |            |                 |                 |                  |
| 3  | Department equipment                            |                   |  |  |   |                            |                           | \$42,330 00 |   |            |           |                |           |                 |           |                |           |              |             |                 |              |                |                            |                            |                                  |                               |                                    |                |            |                 |                 |                  |
| 4  | Deck square and Federal Hall square improvement |                   |  | City Building Wrecking Company.<br>Coleman Brothers Company.   | Removing buildings<br>Recut granite blocks.       |                            | 6,300                     | 47,051 13   | \$1,729 75<br>34,474 21                       | 970 84     |           | 4,782 78       |           |                 |           | \$279 97       | 1,039 79  | \$1,241 63   | \$36 55     |                 | \$1,474 81   | 1,487          | 1,448                      | 17                         | 6,808                            | 11,227                        | \$1,022 50                         |                |            |                 |                 |                  |
| 5  | Garage, Hancock Street Yard                     |                   |  | Joseph A. Signarella.  | Garage.   |                            |                           | 520 35      |   |            |           |                |           |                 |           |                |           |              |             |                 |              |                |                            |                            |                                  |                               |                                    |                |            |                 |                 |                  |
| 6  | Kneeland street improvement                     |                   |  | New England Building Wrecking Co.<br>City Building Wrecking Company.<br>American Building Wrecking Co.<br>M. F. Gaddis |   | 2,034                      | 15,210                    | 48,279 56   | 2,615 00<br>1,695 00<br>1,485 00<br>25,908 45 | 232 06     |           | 6,504 00       | 108,400   | \$52 50         |           | \$60 81        | \$41 81   | 788 56       | 10 00       | \$7 75          | \$2,907 06   |                |                            |                            |                                  |                               |                                    |                |            |                 |                 |                  |
| 7  | Morton street improvement                       | Casterbury street | Morton road                              | Joseph A. Signarella.  | Catch-basin and surface<br>drain.<br>Rubble wall. | 3,441                      |                           | 22,201 31   | 19,304 25                                     |            |           |                |           |                 |           |                | 1,063 30  | 782 46       | 61 06       | 9 26            |              | 34             |                            |                            | 42                               |                               |                                    |                |            |                 |                 |                  |
| 8  | Oakland and Ashland streets                     |                   |  | William J. Barry   |   | 4,500                      | 26,400                    | 19,752 81   | 14,853 75                                     |            |           |                |           |                 |           |                | 4,260 05  | 565 89       | 73 37       | 7 75            |              | 409            | 254                        |                            | 560                              |                               |                                    |                |            |                 |                 |                  |
| 9  | River street                                    |                   |  |  |   | 6,900                      | 32,400                    | 5,840 88    | 4,260 00                                      |            |           |                |           |                 |           |                | 1,442 40  | 88 53        | 5 20        | 18 75           |              |                |                            |                            |                                  |                               |                                    |                | \$36 00    |                 |                 |                  |
| 10 | Street signs.                                   |                   |  |  |   |                            |                           |             |   |            |           |                |           |                 |           | 24,082 65      | 2,358 01  | 338 03       | 7 95        |                 | \$8,318 36   |                |                            |                            |                                  |                               |                                    |                | \$1,066 91 |                 |                 |                  |
| 11 | Tremont street improvement                      | Stuart street     | Bridge over Boston & Albany<br>Railroad. |  |   |                            |                           | 8,453 08    | 2,431 75                                      | 7 17       |           |                |           |                 |           | \$48 66        | 353 30    |              | 60          |                 | \$363 52     |                |                            |                            |                                  |                               |                                    |                | \$210 00   |                 |                 |                  |

\* Sand, stone, cement, etc.  
 † Labor: excavating, paving, grouting, etc.  
 ‡ Teams, trucks, concrete mixer, steam roller, etc.

1. Mack service wrecker, \$8,694.  
 2. Barber-Greene snow loaders, \$16,236.  
 3. Mend-Morrison tractors, with Walsh plows, \$17,400.

\* Credit, old sidewalk bricks.  
 † Photographs.  
 ‡ Expert service, \$307.61; trucks, \$750.



## DETAIL OF WORK DONE BY HIGHWAY DIVISION—PAVING SERVICE FORCE—

|  |   |                                  | WORK DONE.  |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              | COST OF LABOR. |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
|--|---|----------------------------------|-------------|------------------|-------|--------|----------------------------|-------------------------|----------------------------|-----------------------------------|-------------------------|------------------------------|----------------|--------------|----------------|----------------------|----------------------------------|---------------------|--------------------|--------------------|------------------------------|---------------------------|-----------------------------|-----------------------|----------------------------------|----------------------------|--------------------------------------|
| STREET.  | From  | To                               | Total Cost. | MACADAM REPAIRS. |       | DEPOT. | ROADWAY PAVED AND REPAVED. | EDGESTON SET AND RESET. | OUTTERS PAVED AND REPAVED. | BRICK SIDEWALKS Laid AND REPAVED. | CURBED STONE SIDEWALKS. | CROSSWALKS Laid AND REPAVED. | MISCELLANEOUS. | Engineering. | Inspection.    | Edgeston Excavation. | Edgeston Setting and Re-setting. | Macadam Excavation. | Macadam Spreading. | Gutter Excavation. | Gutter Paving and Re-paving. | Paved Roadway Excavation. | Block Paving and Re-paving. | Crosswalk Excavation. | Crosswalks Laying and Re-laying. | Brick Sidewalk Excavation. | Brick Sidewalk Laying and Re-laying. |
|  |   |                                  |             | Square Yards.    | In.   |        | Square Yards.              | Linear Feet.            | Square Yards.              | Square Yards.                     | Square Yards.           | Square Yards.                | Square Yards.  |              |                | Square Yards.        | Square Yards.                    |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 1. Aldie street.   | Franklin street.  | Everett street.                  | \$3,197 26  | 2,688            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  | \$235 31            | \$442 94           | \$740 13           |                              |                           |                             |                       |                                  |                            |                                      |
| 2. Alveston street and Roanoke avenue.                       | Seaverns avenue.  | Revere street.                   | 955 62      | 446              | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  | 157 00              | 79 50              |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 3. Ashmont street.   | Adams street.   | Carruth street.                  | 2,336 44    | 1,204            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  | 500 02              | 343 25             |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 4. Ashmont street.   | Gordon avenue.  | Newhall street.                  | 3,240 11    | 2,789            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  | 703 26              | 412 51             |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 5. Austin street.  |   | West street.                     | 300 02      |                  |       |        |                            |                         |                            |                                   |                         |                              |                | \$6 40       |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 6. Bennett street.   | 65 feet west of Market street.  | 235 feet west of Parsons street. | 254 46      |                  |       |        |                            |                         |                            |                                   |                         |                              |                | \$3,111      |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 7. Bennet street.  | Washington street.  | Talbot avenue.                   | 3,425 12    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 8. Cambridge street.   | Boston & Albany Railroad Bridge.                                      | Charles River.                   | 5,404 32    | 2,057            | 6     |        |                            | 1,372                   | 261                        | 894                               |                         |                              |                |              |                | \$461 16             | \$305 37                         | 1,136 11            | 468 85             | 173 66             | \$382 38                     | \$200 00                  | \$41 22                     |                       | \$110 00                         | \$724 05                   |                                      |
| 9. Capen street.   | Norfolk street.   | Maxwell street.                  | 2,425 30    | 2,062            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 10. Chapman street.  | Main street.  | Austin street.                   | 9,296 16    | 975              | 4     |        | 3,619                      | 1,662                   |                            |                                   |                         |                              |                | \$1 07       |                | 465 39               | 455 48                           |                     |                    |                    |                              |                           |                             | 31 00                 | 3,864 48                         |                            |                                      |
| 11. Chestnut street.   | Banner street.  | Charles River Embankment.        | 1,243 86    | 975              | 4-5   |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 12. Church street.   | Wild street.  | Brookline line.                  | 2,497 36    | 2,600            |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 13. Columbus avenue, Providence street and Arlington street. | Wild street.  | Around Statler Hotel.            | 11,414 68   |                  |       |        | 3,501                      |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 14. Centre street.   | Centre street.  | Weld street.                     | 349 06      |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 15. Dale street.   | Poplar street.  | Hyde Park line.                  | 2,896 61    | 2,850            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 16. Deans street.  | Dudley street.  | Woodville street.                | 2,958 84    | 1,181            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 17. Devos street.  | Blue Hill avenue.   | Columbia road.                   | 4,423 26    | 4,111            |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 18. E street.  | West First street.  | 1,415 feet northwesterly.        | 7,338 83    | 4,244            | 3 7/4 |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 19. E street.  | West First street.  | West Broadway.                   | 2,238 53    | 2,421            | 3 2/3 |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 20. East Cottage street.                                     | Dudley street.  | Railroad bridge.                 | 3,857 46    | 2,721            | 5     |        |                            |                         |                            |                                   |                         |                              |                | \$10 1       |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 21. East Eagle street.                                       | Chelsea street.   | Putnam street.                   | 2,027 66    | 7,000            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 22. Elm street.  | Seagwick street.  | Green street.                    | 2,760 64    | 3,168            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 23. Erie street.   | Washington street.  | Chauncy street.                  | 609 06      |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 24. Corner Freeport street and New Way.                      | Warren street.  | Blue Hill avenue.                | 2,042 11    | 1,099            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 25. Canton street.   | River street.   | The end.                         | 1,373 72    | 1,099            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 26. Gordon avenue.   | Cambridge street.   | Pomerooy street.                 | 993 63      | 1,001            | 11    |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 27. Canton street.   | Bridge over Neponset river.   | Adams street.                    | 2,838 43    | 470              | 2-3   |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 28. Granite avenue.  | Centre street.  | Lincoln street.                  | 1,463 53    | 1,833            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 29. Crompton avenue.   | Blue Hill avenue.   | Lincoln street.                  | 2,815 60    | 1,175            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 30. Hill Moon street.  | Barry street.   | Lincoln street.                  | 3,408 10    | 1,175            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 31. Cambridge street.  | Walnut avenue.  | Lincoln street.                  | 3,160 83    | 2,941            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 32. Harriahol street.  | Parker street.  | Palmer Hall avenue.              | 11,661 46   | 6,811            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 33. Hyde Park street.  | Clear square.   | Readville station.               | 1,907 76    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 34. Hyde Park avenue.  | Ashland street.   | Metropolitan avenue.             | 1,907 76    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 35. Beacon street.   | Beacon street.  | Medford street.                  | 99 96       |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 36. Kirtland street.   | Washington street.  | Rosehill street.                 | 5,763 69    | 6,790            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 37. Main street.   | Lawwood place.  | 123 feet northwesterly.          | 1,494 95    | 460              | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 38. Lawrence avenue.   | Blue Hill avenue.   | Magnolia street.                 | 4,607 11    | 3,408            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 39. Longwood avenue.   | Brookline avenue.   | The Railway.                     | 1,494 95    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 40. Lynde street.  | Huntington avenue.  | Evas way.                        | 1,760 06    | 1,606            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 41. Maple street.  | Maple street.   | Wild street.                     | 301 66      |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 42. Marginal street.   | Boston, Revere Beach and Lynn Railroad.                               | Jeffier street.                  | 2,827 01    | 2,022            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 43. Marion street.   | Chelsea street.   | White street.                    | 5,612 56    | 7,442            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 44. Mt. Vernon street.                                       | 80 feet north of bridge over New York, New Haven & Hartford Railroad. | About 350 feet southeasterly.    | 1,292 02    | 1,346            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 45. North Avenue.  | Bridge.   | Commonwealth avenue.             | 1,844 00    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 46. Old Harbor street.                                       | Dorchester street.  | Telegraph street.                | 2,172 04    | 1,838            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 47. Park Lane street.  | Walnut avenue.  | 675 feet westerly.               | 1,319 33    | 944              | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 48. Farnam street.   | Washington street.  | North Lagoon street.             | 1,102 38    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 49. Ford street.   | Centre street.  | Jamaicway.                       | 2,720 30    | 2,311            | 4-5   |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 50. River street.  | Readville street.   | Deakin line.                     | 812 25      |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 51. River street.  | Gordon avenue.  | Readville street.                | 5,400 05    | 4,400            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 52. Robert street.   | Belgrade avenue.  | South street.                    | 5,851 47    | 4,835            | 41    |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 53. River street.  | Forest Hills street.  | Washington street.               | 5,400 05    | 4,400            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 54. Sachem street.   | Parker Hill avenue.   | Caumont street.                  | 5,070 29    | 2,278            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 55. Seaboard street.   | Market street.  | Dustin street.                   | 4,400 05    | 4,400            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 56. School street.   | Walnut avenue.  | Washington street.               | 2,840 08    | 2,745            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 57. Seaboard street.   | John A. Andrew street.  | Columbia road.                   | 3,430 30    | 2,214            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 58. Seaboard street.   | Cambridge street.   | Market street.                   | 5,070 29    | 2,278            | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 59. Seaboard street.   | Blue Hill avenue.   | Columbia road.                   | 4,400 05    | 4,400            | 6     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 60. Seaboard street.   | Jefferson street.   | Seaver street.                   | 4,163 49    | 4,963            | 3     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 61. Seaboard street.   | Waverly street.   | Blue Hill avenue.                | 485 16      | 7041             | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 62. Sunset street.   | Hillside street.  | Parker Hill avenue.              | 1,001 01    | 7587             | 5     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 63. Waverly street.  | Waverly street.   | Crofton street.                  | 1,009 73    |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 64. Sunnyside street.  | Dudley street.  | Readville street.                | 724 03      | 9,665            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 65. Wint street.   | Hyde Park avenue.   | West Mosby line.                 | 720 30      |                  |       |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 66. Williams street.   | Washington street.  | Forest Hills street.             | 3,020 32    | 3,876            | 41    |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 67. Willow street.   | Woodruff avenue.  | Dumas street.                    | 1,015 43    | 1,454            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |
| 68. West Third street.                                       | Woodruff avenue.  | Dorchester street.               | 2,765 36    | 2,340            | 4     |        |                            |                         |                            |                                   |                         |                              |                |              |                |                      |                                  |                     |                    |                    |                              |                           |                             |                       |                                  |                            |                                      |

† Trestle.

‡ Blanket coated with asphalt (square yards).

\* Gravelled sidewalks (square yards).

• Tar paper.

• Oil.

• Wood block roadway (square yards).

• Nails.

• Musser.

## ICE—CHARGED TO APPROPRIATION FOR MAINTENANCE—PAVING SERVICE.

| COST AND QUANTITY OF MATERIALS.      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  | REMARKS. |                |                  |       |
|--------------------------------------|--------------------------|--------------------|--|--|---|-----------------------------------|-------------------------------|----------------|----------|-----------|---------|-----------|----------------|---------------------|-------------|-----------|-----------|-----------|---------|------------------|---------|-----------|-------|------------------|-------------------------|------------------|------------------|----------|----------------|------------------|-------|
| Brick Sidewalk, Laying and Relaying. | Curb and Stone Sidewalk. | Street Channeling. | Steam Roller Rolling.  | Steam Roller Paving.   | Trenching.  | Granolithic Sidewalk, Excavating. | Granolithic Sidewalk, Laying. | Miscellaneous. | BLOCKS.  |           | BRICKS. |           | CEMENT.        |                     | BROOKSTONE. |           | FLAGGING. |           | GRAVEL. |                  | LUMBER. |           | SAND. |                  | CRUSHED STONE AND DIRT. |                  | BITUMINOUS SAND. |          | MISCELLANEOUS. |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                | Cost.    | Quantity. | Cost.   | Quantity. | Cost.          | Quantity (Barrels). | Cost.       | Quantity. | Cost.     | Quantity. | Cost.   | Quantity (Tons.) | Cost.   | Quantity. | Cost. | Quantity (Tons.) | Cost.                   | Quantity (Tons.) | Cost.            |          |                | Quantity (Tons.) | Cost. |
| 724 00                               |                          |                    | \$171 00<br>135 00<br>180 00<br>108 00<br>9 00<br>107 25<br>117 00<br>147 00<br>180 00 | \$45 00<br>88 50<br>117 00<br>171 00<br>2 50<br>121 50<br>126 00<br>301 50<br>1,980 50<br>170 00<br>138 50<br>2,386 00 | \$750 00<br>88 50<br>275 50<br>160 50<br>2 50<br>957 50<br>301 50<br>1,980 50<br>170 00<br>138 50<br>2,386 00 |                                   |                               | \$225 00       |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   | \$308 64                          | \$322 80                      |                | 217 50   | 4,321     |         |           | 1,342 48<br>65 | 552                 |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   | 415 52                            |                               | \$3271 30      | 1,923 00 | 26,330    |         |           | 538 76<br>188  |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |
|                                      |                          |                    |  |  |   |                                   |                               |                |          |           |         |           |                |                     |             |           |           |           |         |                  |         |           |       |                  |                         |                  |                  |          |                |                  |       |

\*Grouting.  
 \*Driveway (block) repaved.  
 \*Asphalt paving (square yards).  
 \*Cost of asphalt paving.

\*Cost of asphalt cement (3 tons).  
 \*Work done in 1925.  
 \*Cost of wood block paving.



## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT."

| STREET | From                               | To  | Contractor                   | Pavement                | Length, Linear Feet | Area, Square Yards | Total Cost  | Amount Paid to Contractor | MATERIALS |          |               |          | EXPENSES       |            |               |          | WORK DONE   |            |                 |             |               |                        | PROGRESS                   |                              |                                  |                            |                          |            |
|--------|------------------------------------|---|------------------------------|-------------------------|---------------------|--------------------|-------------|---------------------------|-----------|----------|---------------|----------|----------------|------------|---------------|----------|-------------|------------|-----------------|-------------|---------------|------------------------|----------------------------|------------------------------|----------------------------------|----------------------------|--------------------------|------------|
|        |                                    |   |                              |                         |                     |                    |             |                           | EDGESTONE |          | GRANITE BLOCK |          | SIDEWALK BRICK |            | MISCELLANEOUS |          | Engineering | Inspection | Traveling, etc. | Advertising | Miscellaneous | Excavation and Filling |                            | Edgestone Set and Reset      | Brick Sidewalk Laid and Replaced | Roadway Paved and Repaired | Artificial Sidewalk Laid | Macadamous |
|        |                                    |   |                              |                         |                     |                    |             |                           | Cost      | Quantity | Cost          | Quantity | Cost           | Quantity   | Cost          | Quantity |             |            |                 |             |               |                        |                            |                              |                                  |                            |                          |            |
| 1      | Artificial stone sidewalks         | Rebates and repairs                                 |                              |                         |                     |                    | \$14,028 82 | \$13,860 82               |           |          |               |          |                | \$168 00   |               |          |             |            |                 |             |               |                        |                            |                              | Work done in 1927                |                            |                          |            |
| 2      | Asphalt street repairs             |   | Central Construction Company |                         |                     |                    | 15,291 31   | 10,821 08                 |           |          |               |          |                | \$1,256 00 |               |          |             |            |                 |             |               |                        |                            |                              | Work done in 1927                |                            |                          |            |
| 3      | A street                           | Congress street                                     | Dorchester avenue            | Recut granite blocks    | 4,122               | 16,512             | 63,192 08   | 61,017 56                 | \$651 61  | 437      | \$1,860 00    | 31,000   | \$914 20       |            |               |          |             |            | 120             | 8,183       | 351           | 17,759                 | 49,634                     | Completed October 21, 1927   |                                  |                            |                          |            |
| 4      | Adams street                       | Park street   | King street                  | Recut granite blocks    |                     |                    | 283 74      | 280 00                    |           |          |               |          |                | 53 44      |               | 30       |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 5      | Allard street                      | Main street   | Malden Bridge                | Recut granite blocks    | 1,229               | 6,004              | 20,460 38   | 15,533 76                 |           |          | 3,308 70      | 66,765   | 312 60         | 26,000     |               |          |             | 17         | 2,013           | 1,063       | 5,970         | 8,475                  | Completed November 1, 1927 |                              |                                  |                            |                          |            |
| 6      | Arnold street                      | Washington street                                   | Shawmut avenue               | Bitulithic              |                     |                    | 30          | 30                        |           |          |               |          |                |            |               | 30       |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 7      | Hall street                        | Washington street                                   | Shawmut avenue               | Bitulithic              |                     |                    | 30          | 30                        |           |          |               |          |                |            |               |          |             |            |                 |             |               |                        |                            | Work done in 1926            |                                  |                            |                          |            |
| 8      | Benson street                      | Massachusetts avenue                                | Raleigh street               | Bitulithic              | 1,520               | 8,890              | 35,627 16   | 34,937 55                 | 33 08     |          |               |          |                | \$260 00   | 563 57        | 254 11   | 39 35       | 8 00       |                 | 27          | 856           |                        | 10,290                     | 5,398                        | Completed September 21, 1927     |                            |                          |            |
| 9      | Blue Hill avenue                   | Quincy street                                       | Washington street            | Recut granite blocks    |                     |                    | 1,588 42    | 1,456 00                  |           |          |               |          |                |            | 131 22        |          | 1 20        |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 10     | Boston street                      | Bridge over New York, New Haven & Hartford Railroad | Edward Everett square        | Recut granite blocks    | 241                 | 1,073              | 7,007 22    | 7,006 60                  |           |          |               |          |                |            | 90 02         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 11     | Broadway                           | Park square   | Across Stuart street         | Bitulithic              |                     |                    | 2,979 00    | 2,763 35                  | 13 17     |          |               |          |                |            | 94 22         |          | 1 70        |            |                 |             | 14            |                        | 1,073                      |                              | Completed September 8, 1926      |                            |                          |            |
| 12     | Brookline avenue                   | Fenway  | Brookline avenue             | Bitulithic              | 3,260               | 14,038             | 45,776 70   | 44,432 09                 | 305 89    |          |               |          |                | \$161 00   | 769 70        | 399 60   | 25 70       | 4 12       |                 | 410         | 4,216         |                        | 14,013                     | 41,454                       | Completed November 9, 1927       |                            |                          |            |
| 13     | Burke street                       | Tremont street                                      | Columbus avenue              | Bitulithic              |                     |                    | 9 00        | 9 00                      |           |          |               |          |                |            | 0 00          |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 14     | C street                           | Summer street                                       | West East street             | Bitulithic              |                     |                    | 90          | 90                        |           |          |               |          |                |            | 7 30          |          | 60          |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 15     | Cambridge street                   | Main street   | Somerville line              | Bitulithic              |                     |                    | 433 37      | 433 37                    |           |          |               |          |                |            | 421 41        |          | 12 16       |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 16     | Church street                      | Columbus avenue                                     | Stuart street                | Bitulithic              | 174                 | 484                | 1,501 37    | 1,400 72                  |           |          |               |          |                |            | 21 56         |          | 1 30        |            |                 |             |               |                        | 484                        |                              | Completed September 10, 1927     |                            |                          |            |
| 17     | Columbus avenue                    | Park square   | Across Stuart street         | Bitulithic              | 788                 | 5,178              | 13,280 92   | 12,554 93                 |           |          |               |          |                |            | 358 75        | 149 98   | 10 20       |            |                 |             |               |                        | 4,518                      |                              | Completed October 14, 1927       |                            |                          |            |
| 18     | Congress street                    | Franklin street                                     | 72 feet northerly            | Bitulithic              |                     |                    | 168 78      | 168 78                    |           |          |               |          |                |            | 168 65        |          | 10          |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 19     | Crawford street                    | Warren street                                       | Walnut avenue                | Bitulithic              | 3,570               | 10,732             | 35,815 50   | 34,539 02                 | 64 08     |          |               |          |                | \$803 00   | 737 70        | 733 45   | 24 25       |            |                 | 65          | 4,484         | 35                     | 11,279                     | 29,861                       | Completed June 10, 1927          |                            |                          |            |
| 20     | Cusard street                      | Cabot street  |                              |                         |                     |                    | 15 00       | 15 00                     |           |          |               |          |                |            | 15 00         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 21     | Dartmouth street and Trinity place |   |                              |                         |                     |                    | 938 77      | 938 77                    |           |          |               |          |                |            | 5 00          |          | 3 30        |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 22     | Davenport street                   | Tremont street                                      | Columbus avenue              | Sheet asphalt           | 2,834               | 11,907             | 41,347 03   | 39,002 76                 | 159 82    |          | 366 00        |          | \$586 00       | 920 43     | 533 07        | 26 40    | 15 25       |            | 122             | 4,371       | 41            | 9,759                  | 29,145                     | Completed September 13, 1927 |                                  |                            |                          |            |
| 23     | Dudley street                      | Harrison avenue                                     | Blue Hill avenue             | Sheet asphalt           |                     |                    | 133 20      | 133 20                    |           |          |               |          |                |            | 14 00         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1927                |                            |                          |            |
| 24     | Ellet street and Park square       |   |                              |                         |                     |                    | 50 39       | 50 39                     |           |          |               |          |                |            | 59 39         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 25     | Franklin street                    | Oliver street                                       | Broad street                 | Bitulithic              |                     |                    | 283 83      | 283 83                    |           |          |               |          |                |            | 276 88        |          | 7 00        |            |                 |             |               |                        |                            |                              | Work done in 1927                |                            |                          |            |
| 26     | Frederick street                   | Orchardfield street                                 | 190 north of Mill street     | Bitulithic              |                     |                    | 28 00       | 28 00                     |           |          |               |          |                |            | 28 00         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 27     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks | 2,564               | 12,150             | 49,502 27   | 42,832 52                 | 445 96    |          | 4,962 00      |          | \$381 50       | 840 16     | 913 93        | 40 20    |             |            | 5,303           | 293         | 14,397        | 30,385                 | Completed July 6, 1927     |                              |                                  |                            |                          |            |
| 28     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 25 00       | 25 00                     |           |          |               |          |                |            | 28 00         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 29     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 83 56       | 83 56                     |           |          |               |          |                |            | 83 56         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 30     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 120 24      | 120 24                    |           |          |               |          |                |            | 120 24        |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 31     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 00       | 58 00                     |           |          |               |          |                |            | 58 00         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 32     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 33     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 34     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 35     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 36     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 37     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 38     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 39     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 40     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 41     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 42     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 43     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 44     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 45     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 46     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 47     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 48     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 49     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 50     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |
| 51     | Frederick street                   | Blue Hill avenue                                    | Harvard street               | Relaying granite blocks |                     |                    | 58 30       | 58 30                     |           |          |               |          |                |            | 58 30         |          |             |            |                 |             |               |                        |                            |                              | Work done in 1926                |                            |                          |            |

\* New artificial stone sidewalks constructed.

\* Labor culling blocks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, old bricks.

\* Credit, brick old sidewalk

\* Labor and photographs.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.

\* Credit, brick old sidewalk.





## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "PERMANENT STREET PAVEMENT."

| STREET. | From                             | To                                    | Contractor.                   | Pavement.                         | Length, Linear Feet. | Area, Square Yards. | Total Cost. | Amount Paid to Contractor. | MATERIALS.  |                |                 |           | EXPENSES.      |              |             |                 |              | WORK DONE.     |                         |                        |                                    |                            | PROGRESS. |                              |   |                               |                              |
|---------|----------------------------------|---------------------------------------|-------------------------------|-----------------------------------|----------------------|---------------------|-------------|----------------------------|-------------|----------------|-----------------|-----------|----------------|--------------|-------------|-----------------|--------------|----------------|-------------------------|------------------------|------------------------------------|----------------------------|-----------|------------------------------|---|-------------------------------|------------------------------|
|         |                                  |                                       |                               |                                   |                      |                     |             |                            | EDGE-STONE. | GRANITE BLOCK. | SIDEWALK BRICK. |           | MISCELLANEOUS. | Engineering. | Inspection. | Traveling, etc. | Advertising. | Miscellaneous. | Excavation and Filling. | Edging, res and frost. | Brick Sides, walk laid and Relaid. | Roadway Paved and Repaved. |           | Artificial Sides, walk laid. | Miscellaneous.  |                               |                              |
|         |                                  |                                       |                               |                                   |                      |                     |             |                            |             |                | Cost.           | Quantity. |                |              |             |                 |              |                |                         |                        |                                    |                            |           |                              |   | Cost.                         | Quantity.                    |
| 1       | Ainsworth street.                | Centre street.                        | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 914                  | 1,280               | \$1,306 04  | \$1,357 08                 |             |                |                 |           |                |              | \$50 70     | \$34 00         | \$2 50       | \$13 00        |                         |                        | 1,240                              |                            | 421       | 4,987                        | Completed October 8, 1927.                                      |                               |                              |
| 2       | Arch street.                     | Milk street.                          | J. J. McCarthy & Co.          | Repairing artificial stone walks. |                      |                     | 30 00       |                            |             |                |                 |           |                |              | 30 00       |                 |              |                |                         |                        |                                    |                            |           |                              | Work done and paid for by Edison Electric Illuminating Company. |                               |                              |
| 3       | Archie street.                   | South street.                         | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 1,588                | 2,236               | 3,320 47    | 3,105 73                   | \$10 75     |                |                 |           |                |              | 96 33       | 73 20           | 4 40         |                |                         |                        |                                    |                            | 833       | 12,619                       | Completed November 2, 1927.                                     |                               |                              |
| 4       | Bacon street.                    | At junction with Commonwealth avenue. | John McCourt Company.         | Bitulithic.                       |                      |                     | 754 19      |                            |             |                |                 |           |                |              |             |                 |              |                | 25                      |                        | 2,113                              |                            | 288       |                              | Work done in 1927.  |                               |                              |
| 5       | Boylston street.                 | Berkley street.                       | John McCourt Company.         | Bitulithic.                       | 1,872                | 12,860              | 41,502 80   | 41,011 50                  | 91 21       |                | \$72 00         |           | \$109 50       |              | 696 65      | 282 29          | 18 65        | 10 00          |                         |                        | 1,816                              | 100                        | 11,681    | 21,875                       | Completed October 27, 1927.                                     |                               |                              |
| 6       | Boylston street.                 | Tremont street.                       | John McCourt Company.         | Bitulithic.                       | 900                  | 4,601               | 19,170 57   | 18,641 05                  |             |                |                 |           | \$99 00        |              | 403 51      | 201 26          | 23 75        |                |                         |                        | 163                                |                            | 5,008     |                              | Completed October 27, 1927.                                     |                               |                              |
| 7       | Boylston street.                 | Charles street.                       | John McCourt Company.         | Bitulithic.                       | 900                  | 3,630               | 11,346 70   | 11,346 70                  |             |                |                 |           |                |              |             |                 |              |                |                         |                        | 787                                | 1,187                      | 3,630     |                              | Completed October 27, 1927.                                     |                               |                              |
| 8       | Brattle street.                  | Washington street.                    | Samuel J. Tomasello.          | Reinold granite blocks.           | 123                  | 403                 | 1,023 28    | 989 30                     |             |                |                 |           |                |              | 34 77       | 18 46           | 75           |                |                         |                        |                                    |                            | 328       |                              | Completed November 16, 1927.                                    |                               |                              |
| 9       | Columbia avenue.                 | Dartmouth street.                     | M. F. Gaddis.                 | Sheet asphalt.                    | 2,028                | 18,500              | 60,176 23   | 58,862 96                  | 356 33      |                | \$840 00        |           | \$13 69        |              | 1,209 54    | 485 92          | 32 55        | 4 88           |                         |                        | 3,915                              | 158                        | 18,543    | 44,557                       | Completed November 13, 1927.                                    |                               |                              |
| 10      | Cornhill.                        | Washington street.                    | Samuel J. Tomasello.          | Reinold granite blocks.           | 462                  | 1,161               | 2,376 53    | 2,202 83                   |             |                |                 |           | \$5 00         |              | 45 74       | 34 46           | 1 50         |                |                         |                        |                                    |                            | 1,163     |                              | Completed November 16, 1927.                                    |                               |                              |
| 11      | Dundee street.                   | Massachusetts avenue.                 | M. F. Gaddis.                 | Sheet asphalt.                    | 853                  | 2,385               | 5,405 40    | 5,072 53                   |             |                |                 |           |                |              | 250 82      | 71 02           | 7 60         | 2 83           | 19                      |                        |                                    |                            |           | 2,365                        |   | Completed November 16, 1927.  |                              |
| 12      | East Broadway.                   | L street.                             | Martino DeMatteo.             | Bitulithic.                       | 2,732                | 15,096              | 51,313 07   | 49,850 43                  | 300 61      |                | \$24 00         |           |                |              | 646 08      | 462 75          | 21 70        | 7 70           | 489                     | 6,423                  | 65                                 | 16,002                     | 77,373    | Completed December 3, 1927.  |   |                               |                              |
| 13      | East and West Brookline streets. | Washington street.                    | Joseph A. Singarella.         | Bitulithic.                       | 5,043                | 10,007              | 30,319 57   | 29,926 10                  | 84 09       |                |                 |           | \$633 50       |              | 600 60      | 200 32          | 22 05        | 0 75           | 161                     | 5,096                  | 98                                 | 10,009                     | 35,164    | Completed November 2, 1927.  |   |                               |                              |
| 14      | Elliot street.                   | Warren avenue.                        | M. F. Gaddis.                 | Sheet asphalt.                    |                      |                     |             |                            |             |                |                 |           | \$1 29         |              | 255 39      | 203 50          | 10 05        | 2 83           |                         |                        |                                    |                            | 4,628     |                              | Completed November 28, 1927.                                    |                               |                              |
| 15      | Farguhar street.                 | South street.                         | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 1,623                | 374                 | 786 09      | 694 07                     | 19 90       |                |                 |           |                |              | 25 71       | 44 02           | 1 40         |                |                         |                        |                                    |                            | 281       | 3,365                        | Completed October 22, 1927.                                     |                               |                              |
| 16      | Federal street.                  | Franklin street.                      | J. J. McCarthy & Co.          | Repairing artificial stone walks. |                      |                     | 24 00       |                            |             |                |                 |           |                |              | 24 00       |                 |              |                |                         |                        |                                    |                            | 100       |                              | Work not done.  |                               |                              |
| 17      | Fletcher street.                 | Dorchester avenue.                    | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 1,508                | 773                 | 2,017 11    | 2,211 10                   |             |                |                 |           |                |              | 260 01      | 120 80          | 5 30         | 40 75          |                         |                        |                                    |                            | 1,608     | 616                          | Completed October 22, 1927.                                     |                               |                              |
| 18      | Fremont street.                  | 191 feet north of Mill street.        | Samuel J. Tomasello.          | Recut granite blocks.             | 2,561                | 9,559               | 38,286 23   | 26,034 45                  | 1,043 02    | 1,270          | 7,960 50        | 265,330   | 483 60         | 40,300       | * 67 35     | 1,075 13        | 376 44       | 36 75          | 0 00                    | 23                     | 3,201                              | 1,145                      | 6,004     |                              | Unfinished.   |                               |                              |
| 19      | Harold street.                   | Walnut avenue.                        | M. F. Gaddis.                 | Sheet asphalt.                    | 3,350                | 9,800               | 28,550 02   | 20,302 76                  | 804 19      |                |                 |           |                |              | 1,057 09    | 400 18          | 29 80        | 8 50           |                         |                        |                                    |                            | 20        | 10,576                       | 18,325  | Completed November 21, 1927.  |                              |
| 20      | Harrison avenue.                 | Northampton street.                   | M. F. Gaddis.                 | Sheet asphalt.                    | 417                  | 1,041               | 3,120 03    | 2,991 60                   |             |                |                 |           |                |              | 73 90       | 45 51           | 4 16         | 4 87           |                         |                        | 7                                  | 3,463                      | 20        | 10,576                       |   | Completed September 23, 1927. |                              |
| 21      | James street.                    | East Brookline street.                | Joseph A. Singarella.         | Bitulithic.                       | 353                  | 1,252               | 4,331 75    | 4,331 75                   |             |                |                 |           |                |              |             |                 |              |                |                         |                        |                                    |                            | 563       | 563                          | 1,232   | Completed November 2, 1927.   |                              |
| 22      | Longwood avenue.                 | Parker street.                        | D. E. Grant Company.          | Reinold granite blocks.           | 1,294                | 5,125               | 10,430 18   | 16,928 66                  | 60 22       |                | 1,834 50        |           |                |              | 362 37      | 234 89          | 15 10        | 8 50           |                         |                        |                                    |                            | 2,576     | 54                           | 3,370   | 17,468                        | Completed October 20, 1927.  |
| 23      | Madison avenue.                  | Centre street.                        | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 1,106                | 6,618               | 1,704 60    | 1,593 69                   | 30 80       |                |                 |           |                |              | 72 58       | 63 59           | 1 40         |                |                         |                        |                                    |                            | 707       |                              | 5,377   | 6,618                         | Completed October 15, 1927.  |
| 24      | Pilgrim road.                    | Brookline avenue.                     | Joseph A. Singarella.         | Sheet asphalt.                    |                      |                     | 16 29       |                            |             |                |                 |           |                |              | 16 00       |                 |              |                |                         |                        |                                    |                            |           |                              |   | Work not started.             |                              |
| 25      | Quincy street.                   | Columbia road.                        | Joseph A. Singarella.         | Sheet asphalt.                    | 830                  | 2,616               | 9,014 18    | 8,013 11                   |             |                |                 |           |                |              | 387 60      | 194 65          | 14 90        | 8 75           | 89                      | 1,336                  |                                    | 2,709                      | 8,777     |                              | Completed November 28, 1927.                                    |                               |                              |
| 26      | Ralston street.                  | Dorchester avenue.                    | M. F. Gaddis.                 | Sheet asphalt.                    | 211                  | 537                 | 1,170 25    | 1,072 07                   |             |                |                 |           |                |              | 71 86       | 21 18           | 2 30         | 2 84           |                         |                        |                                    |                            |           |                              | 500   |                               | Completed November 30, 1927. |
| 27      | Sawtooth street.                 | Prescott street.                      | M. F. Gaddis.                 | Sheet asphalt.                    |                      |                     | 21 00       |                            |             |                |                 |           |                |              |             |                 |              |                |                         |                        |                                    |                            |           |                              |   | Work not done.                |                              |
| 28      | Selwyn street.                   | Farguhar street.                      | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 1,180                | 6,600               | 1,743 80    | 1,646 85                   |             |                |                 |           |                |              | 65 11       | 39 04           | 1 80         |                |                         |                        |                                    |                            | 1,254     |                              | 5,992   |                               | Completed November 5, 1927.  |
| 29      | Shedfield road.                  | Walton street.                        | J. J. McCarthy & Co.          | Repairing artificial stone walks. | 765                  | 6,590               | 1,841 51    | 1,620 56                   | 109 44      |                |                 |           |                |              | 65 11       | 44 25           | 2 15         |                |                         |                        |                                    |                            | 1,275     |                              | 432   | 6,383                         | Completed November 1, 1927.  |
| 30      | Stoughton street.                | Columbia road.                        | Pleasant street.              | Sheet asphalt.                    |                      |                     | 53 80       |                            |             |                |                 |           |                |              | 49 60       |                 | 4 80         |                |                         |                        |                                    |                            |           |                              |   | Work not done.                |                              |
| 31      | Stuart street.                   | Huntington avenue.                    | Dartmouth street.             | Bitulithic.                       | 966                  | 2,797               | 11,827 27   | 11,450 83                  | 14 72       |                |                 |           | * 77 11        |              | 150 39      | 117 32          | 8 99         | 8 00           | 31                      |                        |                                    | 400                        | 2,707     | 6,006                        |   | Work not done.                |                              |
| 32      | Tyndale street.                  | Waltham street.                       | J. J. McCarthy & Co.          | Reinold granite blocks.           | 1,017                | 17,728              | 4,818 10    | 4,311 69                   | 174 12      |                |                 |           |                |              | 156 07      | 169 98          | 6 05         |                |                         |                        |                                    |                            | 2,084     | 17,726                       |   | Completed September 7, 1927.  |                              |
| 33      | Washington street.               | Dover street.                         | J. C. Coleman & Sons Company. | Sheet asphalt.                    | 3,945                | 25,972              | 72,419 83   | 60,610 22                  | 313 59      |                |                 |           |                |              | 1,002 33    | 1,596 74        | 45 40        | 8 00           |                         |                        |                                    |                            | 499       | 5,984                        | 26,216  | Unfinished.                   |                              |
| 34      | Washington street.               | 90 feet north of Brattle street.      | Samuel J. Tomasello.          | Reinold granite blocks.           | 347                  | 1,451               | 4,010 20    | 3,188 12                   |             |                | 1,149 00        |           |                |              | * 212 83    | 3 00            | 49 15        | 4 35           | 8 75                    |                        |                                    |                            |           | 1,445                        |   | Completed November 16, 1927.  |                              |

\* Credit, bricks, old sidewalks.  
\* Credit, blocks.

\* Labor, handling stock.  
\* Labor.

\* Labor and photographs.  
\* Credit, bricks, old.





## APPENDIX D.

REPORT OF THE DIVISION ENGINEER OF THE  
SANITARY DIVISION.

BOSTON, January 1, 1928.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works:*

DEAR SIR,— I submit herewith a statement of the activities and expenditures of the Sanitary Division for the year ending December 31, 1927.

The maintenance expenditures of the Sanitary Division follow:

|                             |                       |
|-----------------------------|-----------------------|
| Sanitary Division . . . . . | <u>\$3,202,538 52</u> |
|-----------------------------|-----------------------|

## SANITARY SERVICE.

This service during the year has shown a marked improvement in the various districts. All complaints have been promptly investigated and the results are fairly shown in the small number of complaints as compared with the number received in previous years.

While the problem of the shortage of available dumping facilities within economic haul is growing more acute each year, and the suburban districts are growing at an amazing rate, we have been able to show a marked improvement in the collections.

One of the problems that we have had to contend with is that of having the householder provide proper receptacles. This has been a great handicap in the proper collection of both ashes and garbage and a matter that will have to be adjusted in the near future.

## STREET CLEANING SERVICE.

The purchase of the new motor-driven pick-up sweepers added to the equipment for street cleaning has made it possible to cover a much larger area in the suburban districts. However, the parking of the automobiles next to the curb still adds to the difficulty in cleaning

the streets, and between the parking and the traffic interruptions the situation at the present time presents a serious problem.

During the last two years another problem has presented itself, that of taking care of the old abandoned automobile chassis left on public streets and in public alleys. These bodies become very unsightly and have to be removed, adding another problem to the work of this department.

Yours respectfully,

E. F. MURPHY,  
*Division Engineer.*

## SANITARY SERVICE.

### FINANCIAL STATEMENT.

|   |                       |
|---|-----------------------|
| Appropriation . . . . .                         | \$3,197,491 43        |
| Transferred from other appropriations . . . . . | 5,037 09              |
|   | <hr/>                 |
| Expended by Sanitary Service, \$2,089,907 75    | \$3,202,528 52        |
| Expended by Street Cleaning and                 |                       |
| Oiling Service . . . . .                        | 1,112,620 77          |
|   | <hr/>                 |
|   | <u>\$3,202,528 52</u> |

### INCOME.

Statement showing the amount of bills and cash deposited with the City Collector from February 1, 1927, to December 31, 1927, and credited to General Revenue.

|  |                    |
|--|--------------------|
| Tickets and bills for the removal of ashes and waste . . . . . | \$95,182 95        |
| Sale of manure . . . . .                                       | 2,804 70           |
| Rents . . . . .  | 525 75             |
| Sale of old material . . . . .                                 | 4 00               |
| Damage to wagon . . . . .                                      | 12 00              |
| Penalty on coal . . . . .                                      | 1 39               |
|  | <hr/>              |
| Total . . . . .  | <u>\$98,530 79</u> |

### AMOUNT PAID INTO THE CITY TREASURY DURING THE YEAR.

|                                      |                    |
|--------------------------------------|--------------------|
| Removal of ashes and waste . . . . . | \$95,182 95        |
| Sale of manure . . . . .             | 2,138 78           |
| Rents . . . . .                      | 525 75             |
| Miscellaneous . . . . .              | 17 39              |
|                                      | <hr/>              |
| Total . . . . .                      | <u>\$97,864 87</u> |

### Total Cost of House Dirt, Waste, Rubbish and Offal, 1927.

|   |             |
|---|-------------|
| Salaries, division engineer, supervisor, chief veterinary and medical inspector . . . . . | \$6,651 35  |
| Office supplies and expenses . . . . .  | 4,060 13    |
|   | <hr/>       |
| <i>Carried forward</i> . . . . .  | \$10,711 48 |

|                                  |            |                 |
|----------------------------------|------------|-----------------|
| <i>Brought forward</i>           |            | \$10,711 48     |
| Ashes, waste and rubbish account |            | 1,348,583 50    |
| House offal account              |            | 621,733 15      |
| Retired veterans' pensions       | \$1,986 76 |                 |
| Retired laborers' pensions       | 4,928 00   |                 |
|                                  |            | <u>6,914 76</u> |
| Total                            |            | \$1,987,942 89  |

CONSTRUCTION REPAIRS AND HORSESHOEING  
ACCOUNT.

|                              |             |                              |
|------------------------------|-------------|------------------------------|
| Expended for labor           | \$97,129 92 |                              |
| Expended for stock           | 32,382 87   |                              |
|                              |             | <u>129,512 79</u>            |
|                              |             | \$2,117,455 68               |
| WORK DONE FOR OTHER SERVICES |             |                              |
| Street Cleaning Service      |             | 27,547 93                    |
| Total                        |             | <u><u>\$2,089,907 75</u></u> |

## Items of Expenditure for the Year 1927.

|  |                |
|--|----------------|
| Salary, division engineer (in part).....   | \$2,500 00     |
| Salary, supervisor (in part).....  | 1,750 00       |
| Salary, medical inspector (in part).....   | 1,158 35       |
| Salary, chief veterinary (in part).....  | 1,250 00       |
| Salary, foremen.....   | 19,751 29      |
| Salaries, yard clerks.....   | 2,797 14       |
| Labor, collecting and disposing of house dirt and ashes.....                               | 704,620 14     |
| Labor, collecting and disposing of waste and rubbish.....                                  | 38,612 33      |
| Labor, collecting and disposing of house offal.....  | 358,230 72     |
| Labor and stock at stables and yards.....  | 103,748 02     |
| Hired teams on ashes.....  | 26,102 40      |
| Contractor on ashes, East Boston, Brighton, West Roxbury, Dorchester<br>and Hyde Park..... | 280,623 36     |
| Contractor on offal, East Boston, Brighton, West Roxbury, Dorchester<br>and Hyde Park..... | 130,200 00     |
| Holidays, pay allowed.....   | 117,872 16     |
| Vacations, pay allowed.....  | 29,027 10      |
| Grain.....   | 15,221 07      |
| Hay and straw.....   | 19,411 14      |
| Medical attendance and pay allowed injured employees.....                                  | 9,903 84       |
| Veterinary services and medicine.....  | 321 39         |
| Horses, draught.....   | 1,050 00       |
| Outside wheelwright, blacksmith, horseshoeing, etc.....                                    | 16,575 89      |
| Labor, stock and wheelwright, blacksmith, painting, etc.....                               | 108,914 26     |
| Repairs to stables and sheds.....  | 33,678 38      |
| Fuel.....  | 2,769 54       |
| Gas.....   | 495 12         |
| Electric light and power.....  | 2,934 38       |
| Printing, stationery, office supplies, advertising.....                                    | 4,060 13       |
| Automobile expenses.....   | 46,565 70      |
| Rent.....  | 1,980 00       |
| Tolls and fares.....   | 45 20          |
| Telephone tolls and rentals.....   | 823 94         |
| Retired veterans' pensions.....  | 1,986 76       |
| Retired laborers' pensions.....  | 4,928 00       |
| Total.....   | \$2,089,907 75 |

## Amount Expended for the Collection and Disposal of Ashes, Garbage, Waste and Rubbish, by Districts, 1927.

| Districts.                        | Popula-<br>tion. | ASHES.         |             | GARBAGE.     |             | WASTE AND RUBBISH. |             | Total Cost.    | Total Cost<br>Per Capita. |
|-----------------------------------|------------------|----------------|-------------|--------------|-------------|--------------------|-------------|----------------|---------------------------|
|                                   |                  | Cost.          | Per Capita. | Cost.        | Per Capita. | Cost.              | Per Capita. |                |                           |
|                                   |                  |                |             |              |             |                    |             |                |                           |
| 1. South Boston.....              | 73,162           | \$86,599 13    | \$1.1383    | \$36,372 72  | \$0.4971    | \$225 00           | \$0.0031    | \$123,196 85   | \$1.6839                  |
| 2. East Boston.....               | 67,612           | 44,392 89      | 0.6565      | 12,369 96    | 0.1829      | .....              | .....       | 56,762 85      | 0.8395                    |
| 3. Charlestown.....               | 39,047           | 55,623 79      | 1.4245      | 10,573 04    | 0.2709      | .....              | .....       | 66,196 83      | 1.6953                    |
| 4. Brighton.....                  | 49,694           | 53,476 60      | 1.0761      | 27,996 61    | 0.5634      | .....              | .....       | 81,473 21      | 1.6394                    |
| 5. West Roxbury.....              | 61,170           | 60,064 34      | 0.9999      | 35,563 23    | 0.5811      | .....              | .....       | 95,627 57      | 1.5633                    |
| 6. Dorchester.....                | 162,540          | 167,371 78     | 1.0297      | 92,682 29    | 0.5702      | .....              | .....       | 260,054 07     | 1.5999                    |
| 7. Roxbury.....                   | 129,275          | 186,165 48     | 1.4401      | 96,272 94    | 0.7447      | 11,922 29          | 0.0929      | 294,360 71     | 2.2770                    |
| 8 and 9. South End and Back Bay.. | 118,216          | 274,674 58     | 2.3235      | 89,991 84    | 0.7612      | 38,561 11          | 0.3262      | 403,227 53     | 3.4109                    |
| 10. North and West Ends.....      | 75,029           | 149,911 70     | 1.9981      | 33,308 60    | 0.4439      | 12,512 46          | 0.1667      | 195,732 76     | 2.6087                    |
| 11. Hyde Park.....                | 20,407           | 11,996 69      | 0.5877      | 5,260 26     | 0.2577      | .....              | .....       | 17,256 95      | 0.8456                    |
| 12. Disposal station.....         | .....            | 181,526 15     | .....       | 181,341 66   | .....       | 5,711 40           | .....       | 368,579 21     | .....                     |
| Totals.....                       | 796,152          | \$1,271,803 13 | .....       | \$621,733 15 | .....       | \$68,932 26        | .....       | \$1,962,468 54 | .....                     |

## House Dirt and Ashes Removed.

| YEARS.       | Loads.  | Cubic<br>Yards. | Tons.   |
|--------------|---------|-----------------|---------|
| 1923 * ..... | 280,448 | 1,065,625       | 434,234 |
| 1924 * ..... | 276,818 | 1,099,636       | 448,094 |
| 1925 † ..... | 239,840 | 984,287         | 401,087 |
| 1926 .....   | 232,670 | 1,035,160       | 421,828 |
| 1927 .....   | 182,658 | 1,140,579       | 464,787 |

## House Offal Removed.

| YEARS.       | Loads. | Cubic.<br>Yards. | Tons.   |
|--------------|--------|------------------|---------|
| 1923 * ..... | 50,115 | 127,052          | 74,962  |
| 1924 * ..... | 50,584 | 142,822          | 84,264  |
| 1925 † ..... | 46,093 | 137,597          | 81,176  |
| 1926 .....   | 48,738 | 161,551          | 95,315  |
| 1927 .....   | 46,002 | 183,110          | 108,034 |

## Waste and Rubbish Removed.

| YEARS.       | LOADS.          |                  | Cubic<br>Yards. | Tons. |
|--------------|-----------------|------------------|-----------------|-------|
|              | Paper<br>Carts. | Market<br>Wagon. |                 |       |
| 1923 * ..... | 1,924           | 4,589            | 53,409          | 6,394 |
| 1924 * ..... | 1,901           | 4,601            | 53,443          | 6,390 |
| 1925 † ..... | 1,772           | 4,192            | 47,712          | 5,851 |
| 1926 .....   | 1,783           | 4,438            | 49,768          | 6,131 |
| 1927 .....   | 1,722           | 4,068            | 46,320          | 5,681 |

## Loads of Material Collected.

| YEARS.       | Ashes.  | Offal. | Rubbish. | Total<br>Loads. | Tons.   |
|--------------|---------|--------|----------|-----------------|---------|
| 1923 * ..... | 280,448 | 50,115 | 6,513    | 337,076         | 515,590 |
| 1924 * ..... | 276,818 | 50,584 | 6,502    | 333,904         | 538,748 |
| 1925 † ..... | 239,840 | 46,093 | 5,964    | 291,897         | 488,114 |
| 1926 .....   | 232,670 | 48,738 | 6,221    | 287,629         | 523,274 |
| 1927 .....   | 182,658 | 46,002 | 5,790    | 234,450         | 578,502 |

\* During the years 1923 and 1924 the financial year was from February 1 to January 31 of next year.

† 11 months.



## Collected by Contract.

| DISTRICTS.        | ASHES.        |             |              |         | OFFAL.        |               |             |              |        |
|-------------------|---------------|-------------|--------------|---------|---------------|---------------|-------------|--------------|--------|
|                   | Double Loads. | Auto Loads. | Cubic Yards. | Tons.   | Single Loads. | Double Loads. | Auto Loads. | Cubic Yards. | Tons.  |
| East Boston.....  | 8,340         | 2,286       | 64,060       | 26,104  | .....         | 1,129         | .....       | 3,952        | 2,332  |
| Brighton.....     | .....         | 6,132       | 61,320       | 24,988  | .....         | 3,991         | .....       | 22,354       | 13,189 |
| West Roxbury..... | .....         | 5,698       | 56,980       | 23,219  | .....         | .....         | 1,310       | 13,100       | 7,729  |
| Dorchester.....   | 24,786        | 10,069      | 224,620      | 91,533  | 1,164         | 6,214         | 35          | 24,427       | 14,412 |
| Hyde Park.....    | 3,698         | 79          | 19,280       | 7,857   | .....         | 826           | .....       | 2,478        | 1,462  |
| Totals.....       | 36,824        | 24,214      | 426,260      | 173,701 | 1,164         | 12,160        | 1,345       | 66,311       | 39,124 |

## Summary.

| MATERIAL.  | Cubic<br>Yards. | Tons.   |
|------------|-----------------|---------|
| Ashes..... | 426,260         | 173,701 |
| Offal..... | 66,311          | 39,124  |

Final Disposition of All Material in Loads and Tons (2,000 Pounds). Collected by the Sanitary Service, January 1, 1927, to December 31, 1927.

| CLASS OF REFUSE.          | COLEMAN DISPOSAL<br>COMPANY. |         | COLLECTED AND<br>DISPOSED OF BY<br>CONTRACTORS. |         | Total<br>Loads. | Total<br>Tons. |
|---------------------------|------------------------------|---------|---|---------|-----------------|----------------|
|                           | Loads.                       | Tons.   | Loads.  | Tons.   |                 |                |
| House dirt and ashes..... | 145,834                      | 291,086 | 36,824  | 173,701 | 182,658         | 464,787        |
| Offal.....                | 41,255                       | 83,322  | 4,747   | 24,712  | 46,002          | 108,034        |
| Waste and rubbish.....    | 5,790                        | 5,681   | .....   | .....   | 5,790           | 5,681          |
| Totals.....               | 192,879                      | 380,089 | 41,571  | 198,413 | 234,450         | 578,502        |

## Cost of Collections and Disposal of Refuse by Contract in the City of Boston for the Year 1927.

| Contract Districts and Population. | CHARACTER OF REFUSE.   | Tons, (2,000 lbs.) | Total Tons. | Cost per Ton by Districts; Collection and Disposal. | COST PER DISTRICTS. |              |                        | Where Disposed of.    |
|------------------------------------|--|--------------------|-------------|---|---------------------|--------------|------------------------|-----------------------|
|                                    |  |                    |             |   | Cost.               | Total Cost.  | Total Cost per Capita. |                       |
| 2. (67,612) . . . . .              | (Mixed refuse, principally ashes (no kitchen wastes) . . . . . | 26,104             | .....       | \$1.7006  | \$44,392 89         | .....        | .....                  | Inland dumps.         |
|                                    | (Garbage, principally kitchen wastes . . . . .                 | 2,332              | 28,436      | 5.7333  | 12,369 96           | \$56,762 85  | \$0.8395               | *                     |
|                                    |  |                    |             | Av. \$1.9962  |                     |              |                        |                       |
| 4. (49,694) . . . . .              | (Mixed refuse, principally ashes (no kitchen wastes) . . . . . | 24,988             | .....       | \$2.1401  | \$53,476 60         | .....        | .....                  | Inland dumps.         |
|                                    | (Garbage, principally kitchen wastes . . . . .                 | 13,189             | 38,177      | 2.1228  | 27,996 61           | \$1,473 21   | 1.6394                 | *                     |
|                                    |  |                    |             | Av. \$2.1341  |                     |              |                        |                       |
| 5. (34,040) . . . . .              | (Mixed refuse, principally ashes (no kitchen wastes) . . . . . | 23,219             | .....       | \$1.3676  | \$31,756 12         | .....        | .....                  | Inland dumps.         |
|                                    | (Garbage, principally kitchen wastes . . . . .                 | 7,729              | 30,948      | 2.4497  | 18,929 06           | 50,685 18    | 1.4889                 | *                     |
|                                    |  |                    |             | Av. \$1.6377  |                     |              |                        |                       |
| 6. (162,540) . . . . .             | (Mixed refuse, principally ashes (no kitchen wastes) . . . . . | 91,535             | .....       | \$1.9378  | \$177,371 78        | .....        | .....                  |                       |
|                                    | (Garbage, principally kitchen wastes . . . . .                 | 14,412             | 105,945     | 7.4717  | 107,682 29          | 285,054 07   | 1.7598                 | Coleman Disposal Co.† |
|                                    |  |                    |             | Av. \$2.6914  |                     |              |                        |                       |
| 11. Hyde Park (20,407)             | (Mixed refuse, principally ashes (no kitchen wastes) . . . . . | 7,857              | .....       | \$1.5268  | \$11,996 69         | .....        | 0.8456                 | Inland dumps.         |
|                                    | (Garbage, principally kitchen wastes . . . . .                 | 1,462              | 9,319       | 3.5900  | 5,260 26            | 17,256 95    | .....                  | *                     |
|                                    |  |                    |             | Av. \$1.8518  |                     |              |                        |                       |
| 334,293                            | Totals . . . . .   | .....              | 212,825     | .....   | .....               | \$491,233 26 | \$1.4614               |                       |

\* Removed beyond city limits and presumably fed to swine.

† Contract for disposal.

Total as above . . . . . \$491,232 26

Add total of day labor table (between pages 114 and 115) . . . . . 1,598,675 49

Net amount of appropriation . . . . . \$2,089,907 75

**Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year Ending December 31, 1927.**

| Districts and Population. | CHARACTER OF REFUSE.                                       | COST PER TON BY DISTRICTS. |             |              |               |                                | COST OF DISTRICTS. |                        |               |                         |  |  | WHERE DISPOSED OF.        |
|---------------------------|--|----------------------------|-------------|--------------|---------------|--------------------------------|--------------------|------------------------|---------------|-------------------------|--|--|---------------------------|
|                           |  | Tons (2,000 lbs.)          | Total Tons. | To Collect.  | For Disposal. | Total Collection and Disposal. | To Collect.        | Total Cost to Collect. | For Disposal. | Total Cost of Disposal. | Total Cost of Collection and Disposal. | Total Cost per Capita, Collection, and Disposal. |                           |
| 1 (73,162)                | (Mixed refuse, principally ashes (no kitchen wastes) . . . | 43,113                     |             | \$2 0775     | \$0 0355      | \$2 1130                       | \$89,569 13        |                        | \$1,530 00    |                         |  |  | Coleman Disposal Company. |
|                           | Garbage, principally kitchen wastes . . . . .              | 5,214                      |             | 7 2630       |               | 7 2636                         | 37,872 72          |                        |               |                         |  |  | Coleman Disposal Company. |
|                           | Store refuse, principally paper . . . . .                  | 51                         |             | 4 4117       |               | 4 4117                         | 225 00             |                        |               |                         |  |  | Coleman Disposal Company. |
|                           |  |                            | 48,378      | Av. \$2 6388 | Av. \$0 0355  | Av. \$2 6743                   |                    | \$127,666 85           |               | 1,530 00                | \$129,196 85                           | \$1 7659   |                           |
| 3 (30,047)                | (Mixed refuse, principally ashes (no kitchen wastes) . . . | 22,382                     |             | \$2 1684     | \$0 4508      | \$2 6192                       | 48 534 29          |                        | 10 089 50     |                         |  |  | Coleman Disposal Company. |
|                           | Garbage, principally kitchen wastes . . . . .              | 4,204                      |             | 2 7528       |               | 2 7528                         | 11 573 04          |                        |               | 10 089 50               | 70 196 83                              | 1 7978   | Coleman Disposal Company. |
|                           |  |                            | 26,586      | Av. \$2 6404 | Av. \$0 4508  | Av. \$3 0912                   |                    | 60 107 33              |               |                         |  |  |                           |
| 5 (part) and 7 (156,405)  | (Mixed refuse, principally ashes (no kitchen wastes) . . . | 94,185                     |             | \$2 9750     | \$0 0022      | \$2 9781                       | \$280,291 83       |                        | \$213 15      |                         |  |  | Coleman Disposal Company. |
|                           | Garbage, principally kitchen wastes . . . . .              | 35,729                     |             | 3 4399       |               | 3 4399                         | 122,907 66         |                        |               |                         |  |  | Coleman Disposal Company. |
|                           | Store refuse, principally paper . . . . .                  | 774                        |             | 15 4939      |               | 15 4939                        | 11,922 29          |                        |               |                         |  |  | Coleman Disposal Company. |
|                           |  |                            | 130,688     | Av. \$3 1764 | Av. \$0 0022  | Av. \$3 1786                   |                    | 415,121 78             |               | 213 15                  | 415,334 93                             | 2 6555   |                           |
| 8 and 9 (118,216)         | (Mixed refuse, principally ashes (no kitchen wastes) . . . | 80,491                     |             | \$3 5179     | \$0 0683      | \$3 5862                       | \$283,160 47       |                        | \$5,301 25    |                         |  |  | Coleman Disposal Company. |
|                           | Garbage, principally kitchen wastes . . . . .              | 16,707                     |             | 6 4165       | 0 1670        | 6 5835                         | 107,201 84         |                        | 2,798 00      |                         |  |  | Coleman Disposal Company. |
|                           | Store refuse, principally paper . . . . .                  | 3,561                      |             | 10 8287      |               | 10 8287                        | 38,561 11          |                        |               |                         |  |  | Coleman Disposal Company. |
|                           |  |                            | 100,759     | Av. \$4 2470 | Av. \$0 0583  | Av. \$4 3323                   |                    | 427,923 42             |               | 8,291 25                | 437,214 69                             | 3 6984   |                           |
| 10 (75,029)               | (Mixed refuse, principally ashes (no kitchen wastes) . . . | 50,915                     |             | \$3 0523     |               | \$3 0523                       | \$154,411 15       |                        |               |                         |  |  | Coleman Disposal Company. |
|                           | Garbage, principally kitchen wastes . . . . .              | 7,056                      |             | 4 9332       |               | 4 9332                         | 34,808 60          |                        |               |                         |  |  | Coleman Disposal Company. |
|                           | Store refuse, principally paper . . . . .                  | 1,295                      |             | 9 6621       |               | 9 6621                         | 12,512 46          |                        |               |                         |  |  | Coleman Disposal Company. |
|                           |  |                            | 59,266      | Av. \$3 4039 |               | Av. \$3 4039                   |                    | \$201,732 21           |               |                         | \$201,732 21                           | 2 6887   |                           |
| *                         | Coleman Disposal Company . . . . .                         |                            |             |              |               |                                |                    |                        |               | 345,000 00              | 345,000 00                             |  |                           |
| 461,859                   | Totals . . . . .   |                            | 365,677     | Av. \$3 3738 | Av. \$0 9084  | Av. \$4 3711                   |                    | \$1,233,551 59         |               | \$363,123 90            | \$1,598,675 49                         | \$3 4614   |                           |

\* The amount paid to Coleman Disposal Company is for disposal of all refuse collected by the city force and Dorchester contracts. District 6 on page 114.

Total as above . . . . . \$1,598,675 49  
Add total of contract table, page 114 . . . . . 491,232 26

Net amount of appropriation . . . . . \$2,089,907 75

Coleman Disposal Company's contract calls for \$345,000 per year.



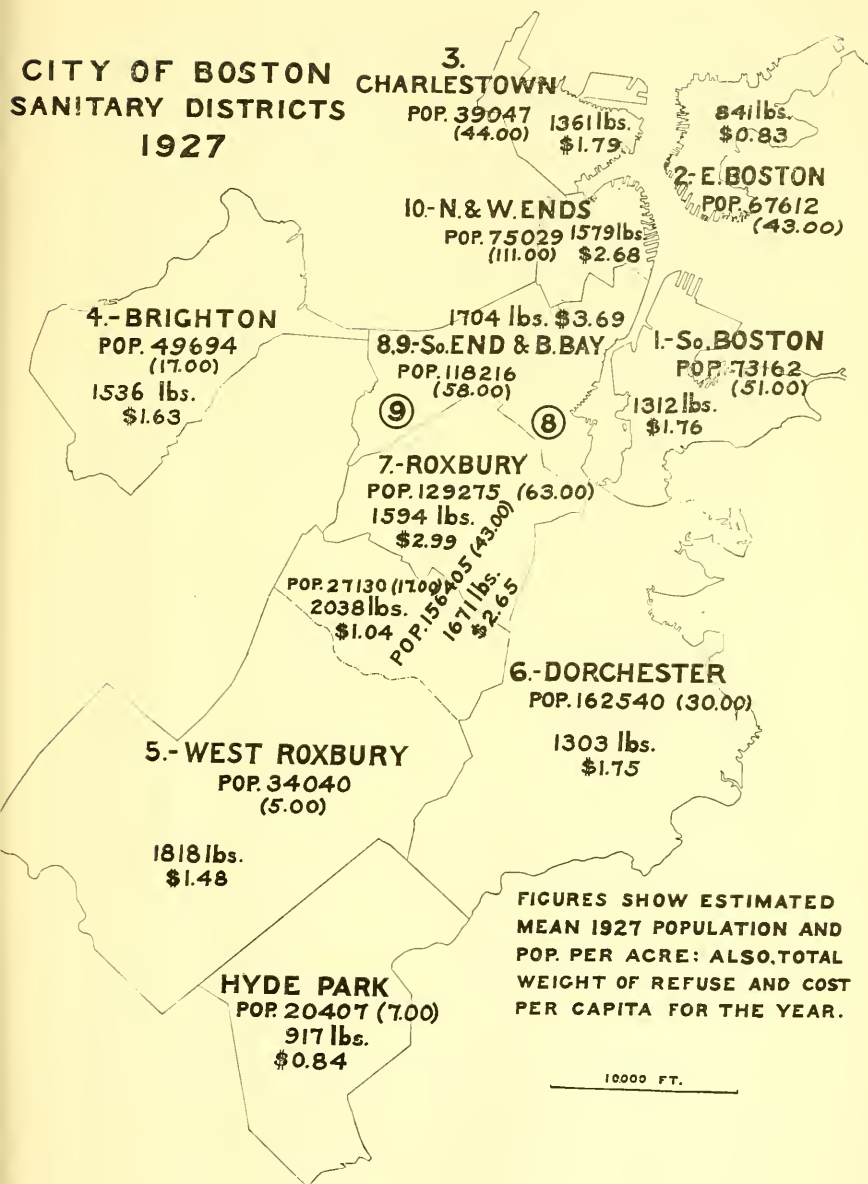
#### Details of Collected Refuse in Boston for the Year Ending December 31, 1927.

| Districts. | Popula-<br>tion. | Class of<br>Labor. | ASHES.           |         |       |                  |         |       |                          |                     |  |                                   |  |                |  | GARBAGE. |                 |                     |                 |         |                     |                 |         |                           |                     |  |                                   |  | WASTE AND RUBBISH. |  |  |                 |        |        |                |         |         |       |                     |  |       | COMBINED<br>TOTALS OF<br>ASHES, GARBAGE,<br>WASTE AND<br>RUBBISH. |  |          |        |       |       |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |        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        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  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|------------|------------------|--------------------|------------------|---------|-------|------------------|---------|-------|--------------------------|---------------------|--|-----------------------------------|--|----------------|--|----------|-----------------|---------------------|-----------------|---------|---------------------|-----------------|---------|---------------------------|---------------------|--|-----------------------------------|--|--------------------|--|--|-----------------|--------|--------|----------------|---------|---------|-------|---------------------|--|-------|---|--|----------|--------|-------|-------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|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|            |                  |                    | CARTS.           |         |       |                  |         |       | TOTAL<br>Cubic<br>Yards. | COMBINED<br>TOTALS. |  | AVERAGE WEIGHT<br>PER CUBIC YARD. |  | TOTAL WEIGHTS. |  |          | GRAND<br>TOTALS | CARTS.              |                 |         |                     |                 |         | TOTALS<br>Cubic<br>Yards. | COMBINED<br>TOTALS. |  | AVERAGE WEIGHT<br>PER CUBIC YARD. |  | TOTAL WEIGHTS.     |  |  | GRAND<br>TOTALS | CARTS. |        |                | WAGONS. |         |       | COMBINED<br>TOTALS. |  |       |   |  |          |        |       |       |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |       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|            |                  |                    | NUMBER OF LOADS. |         |       | AVERAGE CAPACITY |         |       |                          |                     |  |                                   |  |                |  |          |                 | Number<br>of Loads. | AVERAGE WEIGHT. | TOTALS. | Number<br>of Loads. | AVERAGE WEIGHT. | TOTALS. |                           |                     |  |                                   |  |                    |  |  |                 |        |        |                |         |         |       |                     |  |       |   |  |          |        |       |       |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |       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|            |                  |                    | Single.          | Double. | Auto. | SINGLE.          | DOUBLE. | AUTO. |                          |                     |  |                                   |  |                |  |          |                 |                     |                 |         |                     |                 |         |                           |                     |  |                                   |  |                    |  |  |                 | CITY.  | HIRED. | CON-<br>TRACT. | Single. | Double. | Auto. |                     |  | CITY. |   |  | CONTRACT | HIRED. | Tons. | Tons. | Tons. |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |       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# CITY OF BOSTON SANITARY DISTRICTS 1927



# SANITARY DIVISION.—STREET CLEANING DIVISION.

## General administration:

|  |            |             |
|--|------------|-------------|
| Salary division engineer (in part)     | \$2,374 99 |             |
| Salary, deputy supervisor              | 3,500 00   |             |
| Pensions, retired veterans             | 2,334 25   |             |
| Pensions, retired laborers             | 6,030 62   |             |
| Annuity, Acts of 1920 — chapter 132    | 600 00     |             |
| Salary, medical inspector              | 2,222 45   |             |
| Salary, chief veterinarian             | 1,000 00   |             |
| Injured employees                      | 4,183 42   |             |
| Telephone                              | 737 90     |             |
| Printing and stationery                | 718 44     |             |
| Advertising                            | 9 00       |             |
| Miscellaneous                          | 3 00       |             |
| Salary — chauffeur — division engineer | 1,625 35   |             |
| Auto repairs and maintenance,          | 3,110 02   |             |
|  |            | <hr/>       |
|  |            | \$28,449 44 |

## General expense other than general administration:

|                                    |             |            |
|------------------------------------|-------------|------------|
| Wages, stablemen                   | \$52,003 33 |            |
| Wages, yardmen                     | 11,996 82   |            |
| Wages, watchmen                    | 8,681 27    |            |
| Wages, clerks                      | 5,346 47    |            |
| Hay, grain and straw               | 40,520 38   |            |
| Light                              | 1,527 55    |            |
| Veterinary service and medicine    | 384 91      |            |
| Horseshoeing                       | 2,678 35    |            |
| Harnesses, etc.                    | 192 00      |            |
| Fuel                               | 610 17      |            |
| Stable and yards, rent of          | 150 00      |            |
| Stable and yards, supplies         | 1,737 37    |            |
| Stable and yards, building repairs | 2,386 36    |            |
| Horses — new                       | 1,050 00    |            |
| Auto repairs and maintenance,      | 6,013 87    |            |
|                                    |             | <hr/>      |
|                                    |             | 135,278 85 |

## Operating expenses:

|                            |             |
|----------------------------|-------------|
| Salaries, district foremen | \$20,554 06 |
| Salaries, inspectors       | 51,238 16   |
| Wages, laborers            | 600,138 62  |
| Holidays and pay allowed   | 19,585 37   |

|                        |              |              |
|------------------------|--------------|--------------|
| <i>Carried forward</i> | \$855,244 50 | \$163,728 29 |
|------------------------|--------------|--------------|

|   |              |                       |
|---|--------------|-----------------------|
| <i>Brought forward</i> . . . . .                | \$855,244 50 | \$163,728 29          |
| Vacations . . . . .                             | 18,909 96    |                       |
| Shops, labor for repairs . . . . .              | 21,662 31    |                       |
| Dumps, use of . . . . .                         | 1,039 05     |                       |
| Snow license . . . . .                          | 500 00       |                       |
| Cart repairs . . . . .                          | 8,149 29     |                       |
| Tool and repairs . . . . .                      | 294 47       |                       |
| Vehicle supplies . . . . .                      | 153 05       |                       |
| Sweeping machine repairs . . . . .              | 128 48       |                       |
| Push carts and barrels . . . . .                | 1,105 08     |                       |
| Push brooms, teamsters' brooms,<br>etc. . . . . | 2,075 00     |                       |
| Machine brooms . . . . .                        | 2,112 00     |                       |
| Sand barrels . . . . .                          | 224 94       |                       |
| Sand . . . . .                                  | 1,053 51     |                       |
| Water cart hose . . . . .                       | 239 81       |                       |
| Shovels, hoes and picks, etc. . . . .           | 1,028 90     |                       |
| Hired autos . . . . .                           | 66,669 00    |                       |
| Hired teaming . . . . .                         | 1,403 00     |                       |
| Snow plows, parts, etc. . . . .                 | 9,489 09     |                       |
| Shops, stock for repairs . . . . .              | 10,430 98    |                       |
| Autos, repairs and maintenance, . . . . .       | 61,333 29    |                       |
|   | <hr/>        | 899,517 42            |
|   |              | <hr/>                 |
|   |              | <u>\$1,063,245 71</u> |

## STREET OILING AND WATERING BRANCH.

## General administration:

|  |          |            |
|--|----------|------------|
| Salary, division engineer (in<br>part) . . . . . | \$125 00 |            |
| Printing and stationery . . . . .                | 37 82    |            |
| Telephone . . . . .                              | 42 60    |            |
| Miscellaneous . . . . .                          | 4 50     |            |
| Auto repairs and maintenance, . . . . .          | 873 22   |            |
|  | <hr/>    | \$1,083 14 |

## General expense other than general administration:

|   |          |          |
|---|----------|----------|
| Wages of stablemen . . . . .            | \$295 50 |          |
| Hay and grain . . . . .                 | 167 50   |          |
| Shops, stock for repairs . . . . .      | 69 55    |          |
| Horseshoeing . . . . .                  | 95 00    |          |
| Miscellaneous . . . . .                 | 128 65   |          |
| Land and building repairs . . . . .     | 38 63    |          |
| Auto repairs and maintenance, . . . . . | 631 50   |          |
|   | <hr/>    | 1,426 33 |

## Operating expenses:

|                                  |             |            |
|----------------------------------|-------------|------------|
| Road oil . . . . .               | \$22,129 04 |            |
| Sand . . . . .                   | 5,409 23    |            |
|                                  | <hr/>       |            |
| <i>Carried forward</i> . . . . . | \$27,538 27 | \$2,509 47 |

|                                |   |   |   |                |                       |
|--------------------------------|---|---|---|----------------|-----------------------|
| <i>Brought forward</i>         | . | . | . | \$27,538 27    | \$2,509 47            |
| Demurrage                      | . | . | . | 33 00          |                       |
| Calcide                        | . | . | . | 783 09         |                       |
| Tools                          | . | . | . | 36 09          |                       |
| Miscellaneous                  | . | . | . | 246 65         |                       |
|                                |   |   |   | <hr/>          | 28,637 10             |
| Inspection:                    |   |   |   |                |                       |
| General foreman                | . | . | . | \$2,100 00     |                       |
| Oil                            | . | . | . | 2,428 90       |                       |
| Water                          | . | . | . | 20 83          |                       |
| Calcide                        | . | . | . | 64 80          |                       |
| Sanding                        | . | . | . | 531 28         |                       |
| Building repairs               | . | . | . | 187 41         |                       |
| Standpipes                     | . | . | . | 26 82          |                       |
|                                |   |   |   | <hr/>          | 5,360 04              |
| Labor:                         |   |   |   |                |                       |
| Oil                            | . | . | . | \$1,381 00     |                       |
| Water                          | . | . | . | 314 50         |                       |
| Standpipes                     | . | . | . | 218 25         |                       |
| Sanding                        | . | . | . | 7,657 51       |                       |
| Calcide                        | . | . | . | 254 50         |                       |
| Holiday                        | . | . | . | 477 00         |                       |
| Vacation                       | . | . | . | 497 00         |                       |
| Showers                        | . | . | . | 92 44          |                       |
| Land and building              | . | . | . | 1,575 50       |                       |
| Miscellaneous                  | . | . | . | 400 75         |                       |
|                                |   |   |   | <hr/>          | 12,868 45             |
|                                |   |   |   |                | <hr/>                 |
|                                |   |   |   |                | <u>\$49,375 06</u>    |
| Street cleaning expenditures   | . | . | . | \$1,063,245 17 |                       |
| Street watering and oiling ex- |   |   |   |                |                       |
| penditures                     | . | . | . | 49,375 06      |                       |
|                                |   |   |   | <hr/>          | <u>\$1,112,620 77</u> |

## DISTRIBUTION OF EXPENDITURES.

|   |              |                       |
|---|--------------|-----------------------|
| Removing snow . . . . .                         | \$310,109 21 |                       |
| Snow work on crossings and gutters . . . . .    | 12,537 15    | \$322,646 36          |
| Flushing streets . . . . .                      | \$70,777 09  |                       |
| Street patrolling . . . . .                     | 54,585 55    |                       |
| Push cart patrolling . . . . .                  | 164,239 86   |                       |
| Refuse box collections . . . . .                | 26,813 75    |                       |
| Cleaning of paved streets . . . . .             | 268,316 20   |                       |
| Cleaning of macadam streets . . . . .           | 95,037 78    |                       |
| Cleaning of streets by motor machines . . . . . | 48,900 34    |                       |
| Public alleys . . . . .                         | 3,069 63     |                       |
| Sanding of slippery streets . . . . .           | 8,859 15     | 740,599 35            |
| Total . . . . .                                 |              | \$1,063,245 71        |
| Oiling of public streets and ways . . . . .     |              | 45,255 16             |
| Watering of public streets and ways . . . . .   |              | 4,119 90              |
| Total . . . . .                                 |              | <u>\$1,112,620 77</u> |

## Summary.

| ITEMS.                    | STREET CLEANING BRANCH. |              |                | STREET WATERING AND OILING BRANCH. |             |             |
|---------------------------|-------------------------|--------------|----------------|------------------------------------|-------------|-------------|
|                           | 1925.                   | 1926.        | 1927.          | 1925.                              | 1926.       | 1927.       |
| Labor.....                | \$582,879 49            | \$749,049 39 | \$832,665 00   | \$17,860 00                        | \$19,568 45 | \$18,734 53 |
| Painting.....             | 27,366 90               | 62,807 10    | 68,072 00      | 5,176 50                           | 395 00      |             |
| Supplies and repairs..... | 127,502 64              | 136,542 82   | 162,508 71     | 30,384 38                          | 31,495 43   | 30,640 53   |
| Totals.....               | \$737,749 03            | \$993,399 31 | \$1,063,245 71 | \$53,420 88                        | \$51,458 88 | \$49,375 06 |

## Macadam Streets Oiled — Cost of Labor, Teaming, Oil, etc., Including Supervision.

| Districts.        | Area Oiled<br>Once,<br>Square<br>Yards. | Equivalent<br>Mileage,<br>30-Foot<br>Roadway. | DATES OF OILING. |          | Total Cost. | Cost per<br>Square<br>Yard<br>Covered<br>Once. | Gallons<br>Used. | Gallons<br>per<br>Square<br>Yards. |
|-------------------|---|---|------------------|----------|-------------|--|------------------|------------------------------------|
|                   |   |   | First.           | Last.    |             |  |                  |                                    |
| South Boston..... | 259,434                                 | 14,740  | May 20           | Aug. 16  | \$5,656 52  | \$0.0218                                       | 37,192           | .1433                              |
| East Boston.....  | 63,652                                  | 3,616   | May 3            | May 4    | 1,511 61    | .0237  | 8,130            | .1277                              |
| Charlestown.....  | 78,884                                  | 4,482   | June 1           | June 6   | 1,781 51    | .0225  | 13,089           | .1659                              |
| Brighton.....     | 142,942                                 | 8,121   | April 25         | Aug. 30  | 3,085 54    | .0215  | 20,451           | .1430                              |
| West Roxbury..... | 258,049                                 | 14,662  | April 30         | Sept. 16 | 6,351 49    | .0246  | 47,867           | .1855                              |
| Dorchester.....   | 452,958                                 | 25,736  | May 4            | Sept. 16 | 9,087 19    | .0200  | 62,763           | .1385                              |
| Roxbury.....      | 408,111                                 | 23,188  | April 25         | Sept. 8  | 10,048 60   | .0246  | 67,506           | .1654                              |
| South End.....    | 82,253                                  | 4,673   | April 30         | Sept. 8  | 3,234 15    | .0393  | 11,843           | .1439                              |
| Hyde Park.....    | 202,062                                 | 11,480  | May 11           | Sept. 12 | 4,498 55    | .0222  | 31,607           | .1564                              |
| Totals.....       | 1,948,345                               | 111,698                                       |                  |          | \$45,255 16 |  | 300,448          |                                    |
| Average.....      |   |   |                  |          |             | \$0.0232                                       |                  | .1542                              |

**Cleaning of Paved Streets and Macadam Gutters, 1927.**

| District.                | PAVED STREETS                       |   | MACADAM GUTTERS.                    |                                     | TOTAL PAVED<br>STREETS AND<br>MACADAM<br>GUTTERS. | PAVED STREETS AND MACADAM GUTTERS. |                          |                |   | LOADS OF DIRT REMOVED. |                   |                  |                   |                                       |                   | CUBIC YARDS OF DIRT REMOVED. |                                     |                                       |                          |                                     |                                       |                                       |                                     |                                       |
|--------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|---|------------------------------------|--------------------------|----------------|---|------------------------|-------------------|------------------|-------------------|---------------------------------------|-------------------|------------------------------|-------------------------------------|---------------------------------------|--------------------------|-------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|
|                          |                                     |   |                                     |                                     |   |                                    |                          |                |   | PAVED STREETS.         |                   | MACADAM GUTTERS. |                   | PAVED STREETS AND<br>MACADAM GUTTERS. |                   | PAVED STREETS.               |                                     |                                       | MACADAM GUTTERS.         |                                     |                                       | PAVED STREETS AND<br>MACADAM GUTTERS. |                                     |                                       |
|                          | Square<br>Yards<br>Cleaned<br>Once. | Equivalent<br>Mileage<br>30-foot<br>Roadway<br>Cleaned<br>Once. | Square<br>Yards<br>Cleaned<br>Once. | Linear<br>Miles<br>Cleaned<br>Once. | Cleaned<br>Once.                                  | Inspection,<br>Labor.              | All<br>Other<br>Charges. | Total<br>Cost. | Cost per<br>Thousand<br>Square<br>Yards<br>Cleaned<br>Once. | Loads.                 | Cost per<br>Load. | Loads.           | Cost per<br>Load. | Loads.                                | Cost per<br>Load. | Total<br>Cubic<br>Yards.     | Per<br>Thousand<br>Square<br>Yards. | Cost per<br>Cubic<br>Yard<br>Removed. | Total<br>Cubic<br>Yards. | Per<br>Thousand<br>Square<br>Yards. | Cost per<br>Cubic<br>Yard<br>Removed. | Total<br>Cubic<br>Yards.              | Per<br>Thousand<br>Square<br>Yards. | Cost per<br>Cubic<br>Yard<br>Removed. |
| South Boston.....        | 12,282,837                          | 697.88  | 1,953,720                           | 370.00                              | 14,236,557  | \$27,904 95                        | \$13,217 70              | \$41,122 65    | \$2.888   | 4,303                  | \$5.996           | 1,483            | \$10.086          | 5,846                                 | \$7.034           | 8,726                        | .7104                               | \$2.998                               | 2,966                    | 1.518                               | \$5.043                               | 11,692                                | .821                                | \$3.617                               |
| East Boston.....         | 9,554,385                           | 542.86  | 4,190,828                           | 793.71                              | 13,745,213  | 33,563 53                          | 7,531 25                 | 41,094 78      | 2.989   | 3,564                  | 5.816             | 3,189            | 6.386             | 6,753                                 | 6.085             | 7,128                        | .7466                               | 2.908                                 | 6,378                    | 1.521                               | 3.193                                 | 13,506                                | .982                                | 3.043                                 |
| Charlestown.....         | 14,202,547                          | 806.96  | 3,006,828                           | 569.47                              | 17,209,375  | 19,841 79                          | 11,794 23                | 31,636 02      | 1.838   | 2,416                  | 8.612             | 810              | 13.367            | 3,226                                 | 9.806             | 4,832                        | .3402                               | 4.306                                 | 1,620                    | .538                                | 6.684                                 | 6,452                                 | .374                                | 4.903                                 |
| Dorchester.....          | 11,854,060                          | 673.57  | 4,125,780                           | 781.39                              | 15,980,740  | 23,967 40                          | 9,154 44                 | 33,121 84      | 2.072   | 3,286                  | 5.609             | 3,229            | 4.548             | 6,515                                 | 5.083             | 6,572                        | .5543                               | 2.804                                 | 6,458                    | 1.565                               | 2.274                                 | 13,030                                | .816                                | 2.541                                 |
| Roxbury.....             | 5,216,781                           | 296.4   | 1,084,725                           | 205.44                              | 6,301,506   | 12,038 41                          | 2,654 51                 | 14,742 92      | 2.339   | 1,827                  | 4.58              | 1,322            | 4.822             | 3,140                                 | 4.681             | 3,654                        | .7004                               | 2.29                                  | 2,644                    | 2.437                               | 2.411                                 | 6,298                                 | .999                                | 2.34                                  |
| Uptown and Back Bay..... | 34,077,409                          | 1,936 21  | 4,704,880                           | 891.07                              | 38,782,289  | 34,679 45                          | 10,732 74                | 45,412 19      | 1.17  | 2,253                  | 7.807             | 2,986            | 9.317             | 5,239                                 | 8.668             | 4,506                        | .1322                               | 3.904                                 | 5,972                    | 1.269                               | 4.658                                 | 10,478                                | .2701                               | 4.334                                 |
| Downtown.....            | 80,090,834                          | 4,550.61  | .....                               | .....                               | 80,090,834  | 43,347 24                          | 17,078 32                | 60,425 56      | .754  | 5,669                  | 10.658            | .....            | .....             | 5,669                                 | 10.658            | 11,338                       | .1415                               | 5.329                                 | .....                    | .....                               | .....                                 | 11,338                                | .1415                               | 5.329                                 |
| North and West Ends..... | 86,695,384                          | 4,925.87  | .....                               | .....                               | 86,695,384  | 67,747 36                          | 28,050 66                | 95,798 02      | 1.104   | 10,662                 | 8.985             | .....            | .....             | 10,662                                | 8.985             | 21,324                       | .2459                               | 4.492                                 | .....                    | .....                               | .....                                 | 21,324                                | .2459                               | 4.492                                 |
| Totals.....              | 253,975,137                         | 14,430.36   | 19,066,761                          | 3,611.08                            | 273,041,898                                       | \$263,140 13                       | \$100,213 85             | \$363,353 98   | .....   | 34,040                 | .....             | 13,019           | .....             | 47,059                                | .....             | 68,080                       | .....                               | .....                                 | 26,038                   | .....                               | .....                                 | 94,118                                | .....                               | .....                                 |
| Average.....             | .....                               | .....   | .....                               | .....                               | .....   | .....                              | .....                    | .....          | \$1.33  | .....                  | \$7.882           | .....            | \$7.299           | .....                                 | \$7.721           | .....                        | .2679                               | \$3.941                               | .....                    | 1.365                               | \$3.649                               | .....                                 | .3447                               | \$3.86                                |





## APPENDIX E.

REPORT OF THE DIVISION ENGINEER OF  
THE SEWER DIVISION.

BOSTON, January 1, 1928.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

DEAR SIR,—I submit herewith a statement of the activities and expenditures of the Sewer Division for the year ended December 31, 1927.

On January 1, 1927, the Sewer and Sanitary Division was divided, and the Sewer Service was made the Sewer Division, separate from the Sanitary Division.

During the fiscal year 1927 there were built by contractors, day labor and private parties, 18.73 miles of sewers and surface drains throughout the city, making a total of 1,028.59 miles of common sewers and surface drains, which added to 30.93 miles of intercepting sewers, make a grand total of 1,059.52 miles of common and intercepting sewers under the care of the Sewer Division on January 1, 1928.

Six hundred and eighty-two (682) catch-basins were built or rebuilt during the year, making a total of 17,989 under the care of the Sewer Division on January 1, 1928. Six thousand, five hundred eighty (6,580) catch-basins and sixty-six (66) drop inlets were cleaned by contract, the total amount of material removed being 23,184.18 cubic yards.

Three thousand thirty-six (3,036) permits have been issued, as follows: 580 to district foremen and contractors for new construction work, and 2,456 permits to drain layers for laying new house drains or repairing old ones.

Entrance fees to the amount of \$10,664.28 have been deposited with the City Collector for collection from estates upon which no sewer assessment was ever paid, in accordance with the City Ordinances of 1910, chapter 9, section 10.

One thousand, seven hundred fifty-one (1,751) complaints on floodings and other causes have been investigated and reported on; also the gasolene traps in 504 garages have been inspected.

Plans for the assessment of estates for sewer construction have been furnished the Board of Street Commissioners, representing 48,217.75 linear feet of sewers and appurtenances, costing \$319,230.89.

Reported to the City Collector on 4,044 municipal liens in accordance with chapter 60, section 23, of the General Laws, and in addition there were 7,500 reported orally to persons making requests at the Sewer Division office.

The principal works built, together with the sewerage works recommended for the coming year, are as follows:

#### CITY PROPER.

The widening of Kneeland street, Faneuil Hall square, and Dock square, required new sewers which were built, encased in concrete.

A new pipe sewer encased in concrete was built to replace the old broken down sewer in Piedmont street.

The laying of a 48-inch water pipe necessitated the building of a supplementary pipe sewer by the Water Division, through the Abraham Lincoln School yard adjacent to Arlington street.

Sewerage works will be required on account of the widening of Causeway street, the widening and extension of Nashua street and the extension of Lowell street, also the changing of the grade of Buckingham street.

The Charles river harbor line has been moved outward in the rear of the North Station, so that when the filling in begins, it will be necessary to reconstruct our sewer outlets in that vicinity with special attention to improving drainage conditions in the Canal street and Beverly street districts.

Investigation of complaints in Congress street, Clark street and Alley 824 at rear of Northfield street, shows that these sewers should be rebuilt.

In Belvidere street the separate systems of drainage should be constructed.

The proposed building of a tunnel across Bedford street near Harrison avenue will require the diverting of the Bedford street sewer down Harrison avenue to Hayward place.

A modern type of regulator should be built to replace the existing one at Beacon street near Brimmer street.

#### ROXBURY.

Pipe sewers were petitioned for and built in Bowditch court, Cheney street and Maple street, and the old brick sewer in a part of Hampden street was replaced by a concrete structure.

The separate systems of drainage were built in Harold street and catch-basins and drains in Brookline avenue, Dudley street and Quincy street in advance of the permanent pavement.

The sewerage works for Alley 931 and outlet across Boylston street, near Audubon road should be built in advance of the proposed permanent pavement.

Sewers have been petitioned for in Logan street, Regent court and the Riverway.

A section of the Hampden street sewer, the Dorchester brook overflow north of Massachusetts avenue, and the rebuilding of the Huntington avenue siphon at the Brookline town line, are all recommended for construction.

#### SOUTH BOSTON.

Sewerage works were built in advance of permanent pavement in A street and E street, on petition of the abutters in Thomas park, and a sewer was built in Hardy street by private parties.

Sewerage works should be built in advance of the proposed permanent pavement in D street, between West First and Claflin streets. On the west side it is proposed to extend the D and Damrell streets overflow across the Midland Division of the New York, New Haven & Hartford Railroad.

A study is being made under a legislative resolve for the development of the whole South Bay, which will call for sewerage works of great magnitude.

#### EAST BOSTON.

The 12-foot by 10-foot reinforced concrete overflow for the Porter street district, authorized by the Massachusetts Legislature under chapter 259 of the Acts of 1926, is under construction and will continue so during the coming year.

With the exception of a surface drain built in Chelsea place by the Park Department, the work in this district has consisted of minor improvements made in the present system.

Sewerage works will be required in Barnes avenue, Bayswater street and Thurston street which have been laid out and ordered constructed under chapter 393 of the Acts of 1906, and for the petitioners in Lubec street.

The Marginal street overflow near Lewis street is to be extended to the new State Bulkhead.

#### CHARLESTOWN.

Catch-basins were built in Medford street in advance of the resurfacing, and a sewer was built for the petitioners in Tremont street.

The surface drain outlets from Alford street are to be relocated on account of being cut off by the solid filling placed on the property of the Boston Elevated Railway.

The laying out of Irving place as a public way, the street changes at Sullivan square and the petition from Short Street court will all require sewerage works during the coming year.

#### BRIGHTON.

A section of the easterly branch of the Shepard brook in Arthur street, consisting of a 5-foot 3-inch concrete surface drain, was completed during the year.

Contracts were awarded for sewers in Beechcroft street, Lane park and Rose Garden circle, all of which had been petitioned for, and in Colborne road, Ransom road, Euston road, Claymoss road, Gardner street, Faneuil street, Parsons street and Bennett street, which were laid out as public streets under chapter 393 of the Acts of 1906.

Sewerage works were built by private parties in Durland street, Dunclee street, Gillard road and Seminary road.

Sewerage works are recommended in Cambridge street, which is to be resurfaced in Hatherly road, and outlet in Foster street; and in Alberta road, Western avenue, Perthshire road, Chiswick terrace, Chiswick road west, Chestnut terrace, Kenrick street and Langley road, which have been petitioned for.



Sewerage works will also be required in the following streets, viz.: Commonwealth avenue (outlet for Colborne road), Gerald road and outlet in Gillard road, Lane park, Adamson street, Riverview road, Brooksdale road and outlets in Ranelegh road, Hobart street and Parsons street, which are to be laid out and constructed under chapter 393 of the Acts of 1906.

The concrete surface drain for Shepard brook should be extended, also the open brook course in private land off Foster street should be replaced with a new surface drain.

A storm water outlet should be built for the relief of the Pratt street district.

#### WEST ROXBURY.

Sewerage works were built in Ashland street on account of widening, and in Eldridge road, Murray Hill road, St. Joseph street extension, Olmstead street, Midvale road, Stellman road, Roslindale avenue and Nikisch avenue in advance of chapter 393, street construction.

On petition of the abutters, sewerage works were built in Cedar street, Hayes street, Wolfe street, Summit road, Bates street, Jeffers street, Mansfield street, Weeks avenue, Alpheus road, Hyde Park avenue, Lindall street, Emmons road, West Saville street, Knoll street, St. Peter street, Cottage avenue, private land (outlet for South street), Atlantis street, Perham street, West Border road, West Roxbury Parkway, New Park avenue, Lasell street, Sedgwick street, Rossmore road, Forest Hills street, Winchester road, Zamora court, Brook road, Ferndale road, Stimson street, Grove street, Birchwood street, Woodbrier road, private land, Wedgemere road, Centre street, Hodgdon terrace, Pond circle and Guernsey street.

For the general improvement of the system, sewerage works were built in private land and Park Lane street, Poplar street, Stellman road and Seearar road, and by private parties in Vale street and Stella road.

More than sixty petitions for sewers are on file for this district alone, and sewerage works should be built in the order of their importance.

The proposed permanent pavement in Cornell street, the resurfacing of Forest Hills street and Grove street, and the street construction ordered under chapter 393

in Leniston street, Doncaster street and Willow street and outlets in Weld street and Dunbar street will all require sewerage works.

A section of Stony brook and Roslindale brook should be built each year until the work is completed.

#### DORCHESTER.

The widening of Oakland street and River street and the building of the Southern Artery, under Special Acts of the Massachusetts Legislature, made a cross-town thoroughfare and necessitated the building of a large amount of sewerage works.

A part of the open water course of Davenport brook was replaced with a 7-foot 9-inch by 6-foot 2-inch double concrete conduit.

Sewerage works were constructed in Newkirk street, Ginita street, Adams street, Gene street, Hazleton street, Donald road, Frontenac street, Hosmer street, Elm avenue, Milton avenue extension, Wilder road, Norfolk terrace, Ormond street, Myrtlebank avenue, Hillsboro road, Chester street, Halborn street, Livingstone street, Dyer avenue, Harvard street, Emerson avenue, Rangeley street and outlet in private land, Owencroft road, Charlemont street, Vera street, Druid street and outlet in Morton street, on petitions of the abutters; in Rockdale street, Winston road, Crowell street and Mildred avenue in advance of chapter 393, street construction, and in Quincy street on account of street resurfacing.

The abutters in this district, as well as in other outlying districts, are sending in numerous petitions for new sewers, most of which are urgent and require building.

Morton street, to be widened under a Special Act of the Legislature, and Greenfield road, laid out under chapter 393, Acts 1906, will require sewerage works.

A tide-gate chamber in Dorchester avenue at Hoyt street is needed, also the installation of a new regulator in the old chamber of the Dorchester intercepting sewer near Mt. Vernon street, and the rebuilding of sewers in Dudley street and Crescent avenue, and in River street on account of the repaving; also a connection between the Forest avenue trunk sewer and the Talbot avenue high level sewer in Irma street.

The open waterway of Oakland brook, which is proposed to be replaced by a masonry structure in Favre



street, Richmond road and private land; the Tuttle street outlet in Sydney street, the Auckland street surface drain and the King street overflow are all worthy projects for the general improvement of the areas they serve.

#### HYDE PARK.

Sunnyside street, Violante street, Milton street and Reservoir street were all built as the result of petitions for sewerage works from the abutters.

On account of the widening of River street a large amount of sewerage works has been built in the street itself, as well as outlets in adjacent streets.

Sewerage works for Caton street, laid out as a public street, Summit avenue, Metropolitan avenue and other streets, in which the abutters have petitioned for sewers, are all recommended for construction; and the pipe sewer for Oakwood street outlet in Pinewood street and George street extended are recommended to be built.

Sewerage works for Dana avenue and outlet in Water street and land of New York, Hew Haven & Hartford Railroad and Metropolitan District Commission; Readville brook in Norton street, Manilla street and Vaughan street; Business street, Barry street, River street and outlet in private land between Mother brook and Business street; George street and Garfield avenue and outlet in Water street, are all required for the handling of the surface water and to prevent floodings.

#### PUMPING STATION — CALF PASTURE.

Raising and underpinning the boiler foundations, building new foundations and floor for the carpenter shop, and a new suction chamber for No. 5 pump, were the principal items of construction at this place.

The present No. 3 and No. 4 pumps are about forty-five years old and should be replaced by four centrifugal pumps, probably electrically driven.

Float controlled gates are required on the 9-foot sewers at the entrance to the station.

#### MOON ISLAND.

Minor improvements have been made and others will be required on the outfall works at Moon Island.

THOMAS F. BOWES,  
*Division Engineer.*

## SEWER DIVISION.

The work of the Sewer Division is carried on under chapters 27 and 39, Revised Ordinances of 1925, and the following statutes:

Chapter 426, 1897, as amended by 450, 1899, and 268, 1903.

Chapter 283, 1903, as amended by 464, 1907.

Chapter 550, 1907.

Chapter 424, 1908.

Chapter 514, 1908.

Chapter 74, Special Acts of 1918.

## THE DUTIES OF THE SEWER DIVISION.

1. Preparation of plans for sewerage works.
2. Construction and maintenance of all sewerage works.
3. Investigation of complaints in regard to defective drainage.
4. The granting of permits for sewer construction.
5. The preparation of plans for the assessment of the cost of sewer construction.
6. The examination of the plans of other corporations proposing to construct works in the public streets with reference to their probable interference with sewerage works.

|   |             |
|---|-------------|
| Total number of permanent employees on pay roll December 31, 1926 . . . . . | 327         |
| Total number of permanent employees on pay roll December 31, 1927 . . . . . | 317         |
| Total amount of weekly pay roll for week ending December 31, 1926 . . . . . | \$12,674.35 |
| Total amount of weekly pay roll for week ending December 31, 1927 . . . . . | \$12,798.20 |
| Total amount of monthly pay roll December 31, 1926 . . . . .                | \$375.02    |
| Total amount of monthly pay roll December 31, 1927 . . . . .                | \$100.00    |
| * Total amount of monthly pension roll December 31, 1926:                   |             |
| Veterans . . . . .  | \$235.87    |
| Laborers . . . . .  | \$180.38    |

\* Chapter 32, General Laws (veterans), chapter 413, Acts of 1911, and amendments thereto (laborers).

Total amount of monthly pension roll December 31, 1927:

|                    |         |
|--------------------|---------|
| Veterans . . . . . | \$92.54 |
|--------------------|---------|

|                    |          |
|--------------------|----------|
| Laborers . . . . . | \$150.00 |
|--------------------|----------|

Average weekly pay roll including monthly roll and exclusive of pension roll for fiscal year charged as follows:

|                       |            |
|-----------------------|------------|
| Maintenance . . . . . | \$8,573.83 |
|-----------------------|------------|

|                        |            |
|------------------------|------------|
| Construction . . . . . | \$4,111.52 |
|------------------------|------------|

|  |     |
|--|-----|
| Average number of permanent men employed . | 323 |
|--|-----|

Number of men on pension roll December 31, 1926:

|                    |   |
|--------------------|---|
| Veterans . . . . . | 4 |
|--------------------|---|

|                    |   |
|--------------------|---|
| Laborers . . . . . | 6 |
|--------------------|---|

Number of men on pension roll December 31, 1927:

|                    |   |
|--------------------|---|
| Veterans . . . . . | 2 |
|--------------------|---|

|                    |   |
|--------------------|---|
| Laborers . . . . . | 5 |
|--------------------|---|

|   |        |
|---|--------|
| Rate of wages paid to common laborers . . | \$5.00 |
|---|--------|

## Financial Statement from January 1, 1927, to December 31, 1927.

| OBJECT.  | Balances<br>on Hand<br>Jan. 1, 1927. | Appropriations,<br>Loans and<br>Revenue. | Transfers to | Transfers from | Total Credits. | Expenditures<br>during the<br>Year 1927. | Balances<br>on Hand<br>Dec. 31, 1927. |
|--|--------------------------------------|--|--------------|----------------|----------------|--|---------------------------------------|
| Sewer Division.....                            | .....                                | \$698,720 43                             | * \$988 36   | .....          | \$699,708 79   | \$699,708 79                             | *                                     |
| Sewerage Works.....                            | \$339,882 18                         | 1,001,028 34                             | .....        | .....          | 1,340,910 52   | 971,876 75                               | \$369,033 77                          |
| Sewerage Works, Charles River<br>Basin.....    | 516 70                               | .....                                    | .....        | .....          | 516 70         | .....                                    | 516 70                                |
| East Boston Pumping Station<br>and Outlet..... | 713,203 42                           | .....                                    | .....        | .....          | 713,203 42     | 2,083 61                                 | 711,119 81                            |
| Totals.....                                    | \$1,053,602 30                       | \$1,699,748 77                           | \$988 36     | .....          | \$2,754,339 43 | \$1,673,669 15                           | \$1,080,670 28                        |

\* From Lighting Service.

MAINTENANCE EXPENDITURES JANUARY 1, 1927,  
TO DECEMBER 31, 1927.

## SEWER DIVISION.

*Improved Sewerage.*

|  |           |    |
|--|-----------|----|
| Pumping Station, Calf Pasture, inside . . . . .  | \$142,064 | 55 |
| Pumping Station, Calf Pasture, outside . . . . . | 32,637    | 86 |
| Pumping Station, Calf Pasture, engines . . . . . | 46,357    | 20 |
| Pumping Station, Calf Pasture, boilers . . . . . | 25,018    | 32 |
| Pumping Station, Union Park street . . . . .     | 10,217    | 84 |
| Pumping Station, Summer street . . . . .         | 1,909     | 91 |
| Pumping Station, Hyde Park . . . . .             | 1,405     | 92 |
|  | <hr/>     |    |
|  | \$259,611 | 60 |
| Moon Island . . . . .                            | 29,515    | 77 |
| Main and intercepting sewers . . . . .           | 18,195    | 85 |
|  | <hr/>     |    |
|  | \$307,323 | 22 |

*Miscellaneous Charges.*

|  |          |        |    |
|--|----------|--------|----|
| Maintenance Stony Brook . . . . .      |          | 2,237  | 94 |
| Cleaning catch-basins . . . . .        |          | 87,746 | 61 |
| Yards and lockers . . . . .            |          | 432    | 05 |
| Employed at yards . . . . .            |          | 38,972 | 75 |
| Automobiles . . . . .                  | \$66,700 | 04     |    |
| Horses, carts, harnesses, etc. . . . . | 1,176    | 46     |    |
| Teaming . . . . .                      | 7,816    | 13     |    |
|  | <hr/>    |        |    |
|  | \$75,692 | 63     |    |

|   |         |           |    |
|---|---------|-----------|----|
| Less amount earned by service teams and auto trucks . . . . . | 23,092  | 50        |    |
|   | <hr/>   |           |    |
|   |         | 52,600    | 13 |
| Cleaning sewers . . . . .                                     |         | 53,683    | 21 |
| Office salaries . . . . .                                     |         | 23,772    | 35 |
| Office expense . . . . .                                      |         | 2,148     | 95 |
| Repairing department buildings . . . . .                      | \$1,239 | 82        |    |
| Repairing catch-basins, South Boston . . . . .                | 2,642   | 34        |    |
| Repairing catch-basins, East Boston . . . . .                 | 1,332   | 68        |    |
| Repairing catch-basins, Charlestown . . . . .                 | 2,084   | 96        |    |
| Repairing catch-basins, Brighton . . . . .                    | 1,007   | 88        |    |
| Repairing catch-basins, West Roxbury . . . . .                | 3,489   | 00        |    |
| Repairing catch-basins, Dorchester . . . . .                  | 5,626   | 50        |    |
| Repairing catch-basins, Hyde Park . . . . .                   | 766     | 61        |    |
| Repairing catch-basins, Roxbury . . . . .                     | 4,215   | 31        |    |
| Repairing catch-basins, city proper . . . . .                 | 6,460   | 99        |    |
| Repairing sewers, South Boston . . . . .                      | 1,554   | 18        |    |
| Repairing sewers, East Boston . . . . .                       | 1,882   | 93        |    |
| Repairing sewers, Charlestown . . . . .                       | 1,372   | 00        |    |
| Repairing sewers, Brighton . . . . .                          | 1,275   | 06        |    |
| Repairing sewers, West Roxbury . . . . .                      | 5,670   | 88        |    |
| Repairing sewers, Dorchester . . . . .                        | 3,782   | 19        |    |
| Repairing sewers, Hyde Park . . . . .                         | 1,163   | 71        |    |
| Repairing sewers, Roxbury . . . . .                           | 3,345   | 90        |    |
| Repairing sewers, city proper . . . . .                       | 3,189   | 20        |    |
|   | <hr/>   |           |    |
|   |         | 52,102    | 14 |
| <i>Carried forward</i> . . . . .                              |         | \$621,019 | 35 |

|                                    |              |
|------------------------------------|--------------|
| <i>Brought forward</i>             | \$621,019 35 |
| Pension roll (veterans)            | 2,264 14     |
| Pension roll (laborers)            | 1,915 88     |
| Annuities                          | 351 00       |
| Fuel and oil                       | 2,895 42     |
| Hardware, tools, etc.              | 5,738 39     |
| Engines and boilers                | 602 35       |
| Sundries and miscellaneous charges | 40,346 37    |
| Telephones                         | 470 59       |
| House connections                  | 17,730 88    |
| Rubber goods                       | 980 44       |
| Gatehouses, Fenway                 | 3,458 61     |
| Stock                              | 11,919 82    |
|                                    | <hr/>        |
|                                    | \$709,693 24 |

*Credit.*

|   |              |
|---|--------------|
| Stock transferred and used on construction        | \$9,505 65   |
| Fuel and oil transferred and used on construction | 478 80       |
|   | <hr/>        |
|   | 9,984 45     |
|   | <hr/>        |
|   | \$699,708 79 |

*Charges to Various Parties for Work Done and Material Furnished, etc.*

|                                  |             |
|----------------------------------|-------------|
| E. J. Carty                      | \$1 88      |
| Elizabeth Mahoney                | 20 00       |
| Joseph Buckley                   | 6 75        |
| Henry Webber                     | 30 00       |
| Philip Capello                   | 13 50       |
| M. H. Levanthal                  | 15 00       |
| Estate of John Shay              | 13 55       |
| Ezra Andleman                    | 10 30       |
| Mary Keliher                     | 15 00       |
| Mary Norton                      | 11 00       |
| William E. Riley                 | 26 70       |
| Annie Danehy                     | 12 50       |
| H. E. Cline                      | 125 00      |
| Blue Diamond Material Company    | 6 80        |
| Dwight P. Robinson & Co., Inc.   | * 224 28    |
| Fred E. Bowes                    | 13 50       |
| Green Brothers                   | 8 50        |
| Harris Goldman                   | 11 00       |
| Metropolitan District Commission | 10,300 00   |
| A. A. Woods                      | 13 50       |
| William Lavery                   | 13 50       |
| Schoolhouse Commission           | * 45 30     |
| Turner Center System             | 15 00       |
| Burnett & Sherman                | 11 00       |
| Joseph Shinkus                   | 11 00       |
| Hurley-Driscoll Building Company | * 197 81    |
| W. H. Hardy                      | * 39 44     |
| Water Service                    | 49 00       |
| William Muisa                    | 15 00       |
| Patrick J. Lovett                | 6 50        |
| Water Service                    | 53 29       |
| Jennie Glassman                  | 15 00       |
| M. A. French                     | 28 40       |
|                                  | <hr/>       |
| <i>Carried forward</i>           | \$11,379 00 |

\* To the credit of Sewerage Works Appropriation.

|  |             |
|--|-------------|
| <i>Brought forward</i>                       | \$11,379 00 |
| Thomas G. Doig                               | 60 75       |
| L. V. Niles                                  | 25 00       |
| Fenway Garage                                | 15 00       |
| David R. Pitnoff                             | 35 00       |
| Edgar O. Hunt                                | 11 00       |
| William Perry                                | 30 00       |
| Hotel Brunswick                              | 47 25       |
| P. & J Besse Company                         | 11 75       |
| M. W. Palmer                                 | * 61 54     |
| The Edison Electric Illuminating Company     | 15 00       |
| J. Cundo                                     | 15 00       |
| Boston Transit Department                    | * 191 10    |
| Thomas Carroll                               | 15 00       |
| Supply Department                            | 1,813 89    |
| Margaret J. Lannon                           | 15 00       |
| T. D. Baxter                                 | 7 12        |
| Brauman & Nudle                              | 15 00       |
| J. Lynch                                     | 15 00       |
| S. DiNapoli                                  | 15 00       |
| Mr. Stronberg                                | 15 00       |
| Cann's Sea Grill                             | 50 63       |
| T. Dennehy & Sons                            | 19 00       |
| Dominick Santurino                           | 15 00       |
| Dorchester Sewer Construction Company        | * 43 84     |
| Barnet Levinbaum                             | 8 50        |
| Rose Jacobstein                              | 12 75       |
| William F. Condon                            | * 87 66     |
| M. A. Christian                              | * 10 41     |
| John D. Lyons                                | * 16 44     |
| State Street Trust Company                   | 13 50       |
| Elizabeth J. Higgins                         | 14 00       |
| Michael J. O'Donnell                         | 3 50        |
| William Perry Company                        | 10 00       |
| William Perry Company                        | 24 00       |
| Artemus R. Wood, Jr.                         | 177 72      |
| Boston Elevated Railway                      | 11 00       |
| W. H. Young & Son                            | 6 88        |
| Joseph Miller                                | 8 37        |
| P. Vitale                                    | 8 37        |
| Ormac Company                                | * 50 43     |
| Vincent Yonkus                               | 8 13        |
| State Hotel Company                          | 15 00       |
| Morse Brothers Company                       | 15 00       |
| Old Colony Apartment                         | 15 00       |
| J. Privitero                                 | 15 00       |
| L. P. Frederico Company                      | * 26 04     |
| Huntley Garage                               | 21 96       |
| Anna Franke                                  | 15 00       |
| M. Guarino                                   | 5 00        |
| Quincy Market Cold Storage Warehouse Company | 24 00       |
| Ormac Company                                | * 88 73     |
| Thomas F. Fallon                             | 26 24       |
| Lloyd H. Chase                               | 5 00        |
| Park Department                              | * 71 83     |
| C. & R. Construction Company                 | * 4 75      |
| Water Service                                | * 165 48    |
| Tillie Berman                                | 3 63        |
| George Gonia                                 | 15 00       |
| <i>Carried forward</i>                       | \$14,941 19 |

\* To the credit of Sewerage Works Appropriation.



|  |  |                    |
|--|--|--------------------|
| <i>Brought forward</i>                                 |  | \$14,941 19        |
| James P. Mackin  |  | 14 38              |
| R. R. O'Brien  |  | 6 88               |
| Standard Oil Company                                   |  | 200 00             |
| Fred Davis   |  | 50 00              |
| B. E. Doyle  |  | 10 00              |
|  |  | <hr/>              |
|  |  | \$15,222 45        |
| Uncollected  |  | 521 89             |
|  |  | <hr/>              |
| Total amount collected                                 |  | <u>\$14,700 56</u> |
| Entrance fees charged and collected in accordance with |  |                    |
| Ordinances of 1925, chapter 27, section 10             |  | <u>\$10,664 28</u> |

## Sewer Division.— Maintenance Expenditures, Detail, 1927.

| ACCOUNTS.                        | Total<br>Expendi-<br>tures. | Labor.      | Teaming.   | Stock.   | Contracts.  | Miscellaneous.   |
|----------------------------------|-----------------------------|-------------|------------|----------|-------------|--|
| Automobiles (25).....            | \$66,700 04                 | \$22,741 27 | .....      | .....    | .....       | Repairs..... \$6,226 78<br>Equipment..... 34,911 28<br>Supplies..... 2,706 71<br>Fees..... 114 00<br>\$43,958 77                                   |
| Cleaning catch-basins.....       | 87,746 61                   | 43,750 49   | \$5,664 00 | .....    | \$38,237 97 | Dumping..... 94 15   |
| Cleaning sewers.....             | 53,683 21                   | 33,365 01   | 4,651 11   | .....    | 15,424 39   | Dumping..... 242 70  |
| Engines and boilers.....         | 602 35                      | .....       | .....      | .....    | .....       | Waste..... \$29 10<br>Repairs and inspection..... 573 25<br>602 35   |
| Employed at yards.....           | 38,972 75                   | 38,972 75   | .....      | .....    | .....       | .....  |
| Fuel and oil.....                | 2,895 42                    | .....       | .....      | .....    | .....       | Coal..... \$1,141 54<br>Gasoline and oil..... 1,753 88<br>2,895 42   |
| Hardware and tools.....          | 5,738 39                    | .....       | .....      | .....    | .....       | Hose..... \$877 15<br>Hardware, tools, etc..... 4,861 24<br>5,738 39   |
| House connections.....           | 17,730 88                   | 15,947 12   | 266 00     | \$131 52 | 1,386 24    | Fodder..... \$624 96<br>Stable goods and supplies..... 129 20<br>Repairs, wagons and har-<br>nesses..... 188 30<br>Shoeing..... 234 00<br>1,176 46 |
| Horses, carts and harnesses..... | 1,176 46                    | .....       | .....      | .....    | .....       | .....  |
| Maintenance, Stony Brook.....    | 2,237 94                    | 2,009 94    | 228 00     | .....    | .....       | .....  |
| Office expense.....              | 2,148 95                    | .....       | .....      | .....    | .....       | Stationery and supplies..... \$1,807 94<br>Miscellaneous..... 341 01<br>2,148 95   |

## Sewer Division.— Maintenance Expenditures, Detail, 1927.— Concluded.

| Accounts.                                 | Total<br>Expendi-<br>tures. | Labor.      | Teaming.   | Stock.      | Contracts. | Miscellaneous.   |                                  |
|---|-----------------------------|-------------|------------|-------------|------------|--|----------------------------------|
| Office salaries.....                      | \$23,772 35                 | \$23,772 35 |            |             |            |  |                                  |
| Rubber goods.....                         | 980 44                      |             |            |             |            | 151 pairs boots.<br>6 pairs mitts.<br>77 coats.<br>85 hats.      | \$980 44                         |
| Stock.....                                | 11,919 82                   | 1,542 37    |            | \$10,377 45 |            |  |                                  |
| Teaming.....                              | 7,816 13                    | 7,816 13    |            |             |            |  |                                  |
| Yard and locker.....                      | 432 05                      |             |            |             |            | Gas and electricity.<br>Miscellaneous.                           | \$122 15<br>309 90               |
| Telephones.....                           | 470 59                      |             |            |             |            |  | 432 05                           |
| Back Bay Fens, gatehouses.....            | 3,458 61                    | 2,100 66    |            |             |            | Electricity.<br>Repairs, etc.                                    | 470 59                           |
| Sundries.....                             | 40,346 37                   | 32,384 28   | \$1,306 00 |             |            |  | 1,357 95                         |
| Repairing department buildings.....       | 1,239 82                    | 229 00      |            | 1,010 82    |            | Repairs, etc.<br>Transportation.<br>Workmen's compensa-<br>tion. | \$3,281 39<br>945 42<br>2,339 28 |
| Repairing catch-basins, South Boston..... | 2,642 34                    | 1,151 00    | 268 00     | 1,223 34    |            |  |                                  |
| " " East Boston.....                      | 1,332 68                    | 760 18      | 198 00     | 374 50      |            |  |                                  |
| " " Charlestown.....                      | 2,084 96                    | 1,225 88    | 327 00     | 532 08      |            |  |                                  |
| " " Brighton.....                         | 1,007 88                    | 497 88      | 42 00      | 468 00      |            |  | 6,566 09                         |

|  |   |                    |              |              |             |             |             |  |  |             |
|--|---|--------------------|--------------|--------------|-------------|-------------|-------------|--|--|-------------|
| "  | " | West Roxbury ...   | 3,489 00     | 2,320 00     | 420 00      | 749 00      |             |  |  |             |
| "  | " | Dorchester . . . . | 5,626 50     | 3,322 25     | 410 00      | 920 30      | 973 95      |  |  |             |
| "  | " | Hyde Park.....     | 766 61       | 396 56       | 68 00       | 302 05      |             |  |  |             |
| "  | " | Roxbury.....       | 4,215 31     | 2,879 02     | 370 00      | 793 25      | 173 04      |  |  |             |
| "  | " | city proper.....   | 6,460 99     | 4,344 23     | 290 00      | 921 17      | 905 59      |  |  |             |
| Repairing sewers,                        |   | South Boston.....  | 1,554 18     | 536 20       | 404 00      | 235 50      | 378 48      |  |  |             |
| "  | " | East Boston.....   | 1,882 93     | 643 39       | 240 00      | 226 10      | 773 44      |  |  |             |
| "  | " | Charlestown.....   | 1,372 00     | 641 00       | 210 00      | 521 00      |             |  |  |             |
| "  | " | Brighton.....      | 1,275 06     | 874 26       | 24 00       | 376 80      |             |  |  |             |
| "  | " | West Roxbury.....  | 5,670 88     | 3,999 85     | 420 00      | 944 13      | 306 90      |  |  |             |
| "  | " | Dorchester.....    | 3,782 19     | 2,499 13     | 380 00      | 272 70      | 630 36      |  |  |             |
| "  | " | Hyde Park.....     | 1,163 71     | 787 41       | 219 00      | 157 30      |             |  |  |             |
| "  | " | Roxbury.....       | 3,345 90     | 1,439 54     | 312 00      | 346 00      | 1,248 36    |  |  |             |
| "  | " | city proper.....   | 3,189 20     | 2,159 44     | 418 00      | 444 50      | 167 26      |  |  |             |
| Annuities.....                           |   |                    | 351 00       |              |             |             |             |  |  | 351 00      |
| Pension roll, veterans and laborers..... |   |                    | 4,180 02     | 4,180 02     |             |             |             |  |  | \$67,015 31 |
| Totals.....                              |   |                    | \$425,462 52 | \$259,288 61 | \$17,225 11 | \$21,327 51 | \$60,605 98 |  |  | 18,085 30   |
| Teams.....                               |   |                    | \$23,092 50) |              |             |             |             |  |  | \$48,930 01 |
| Stock.....                               |   |                    | 9,505 65)    |              |             |             |             |  |  |             |
| Fuel and oil.....                        |   |                    | 478 80)      |              |             |             |             |  |  |             |
| Totals.....                              |   |                    | \$392,385 57 | \$253,802 61 | \$17,225 11 | \$11,821 86 | \$60,605 98 |  |  |             |

## MISCELLANEOUS ACCOUNT, DETAIL.

|  |               |         |                    |
|--|---------------|---------|--------------------|
|  | <i>Labor.</i> |         |                    |
| Vacations . . . . .  |               | \$9,935 | 58                 |
| Sick leave . . . . .   |               | 407     | 22                 |
| Workingmen's compensation . .  |               | 2,339   | 28                 |
| Miscellaneous . . . . .  |               | 5,910   | 98                 |
| Inspection — Complaints: Defec-<br>tive drainage, prevention of gaso-<br>lene entering common sewers . |               | 4,737   | 20                 |
| General engineering . . . . .  |               | 11,393  | 30                 |
|  |               | <hr/>   |                    |
|  |               |         | \$34,723 56        |
| Teaming, removing snow . . . .   |               |         | 1,396 00           |
| Expert services . . . . .  |               |         | 75 00              |
| Transportation . . . . .   |               |         | 945 42             |
| Repairing streets . . . . .  |               |         | 1,968 56           |
| Medical attendance . . . . .   |               |         | 479 15             |
| Miscellaneous . . . . .  |               |         | 758 68             |
|  |               |         | <hr/>              |
|  |               |         | <u>\$40,346 37</u> |

# Sewer Division.—Maintenance Expenditures Detail, 1927.

| ACCOUNTS.                         | Total Expenditures. | Labor.       | Teaming.   | Waste.   | Fuel and Power. | Oil and Gasoline. | Packing. | Valves.  | Transportation. | Stable.  | Pipe Fittings and Miscellaneous. | Autos.     |
|-----------------------------------|---------------------|--------------|------------|----------|-----------------|-------------------|----------|----------|-----------------|----------|----------------------------------|------------|
| Pumping station, Calf Pasture:    |                     |              |            |          |                 |                   |          |          |                 |          |                                  |            |
| Inside.....                       | \$142,064 55        | \$35,477 32  | .....      | \$491 77 | \$93,293 61     | \$188 78          | .....    | .....    | \$238 96        | .....    | \$12,374 11                      |            |
| Outside.....                      | 32,637 86           | 27,843 10    | \$80 00    | .....    | .....           | .....             | .....    | .....    | .....           | \$662 07 | 3,657 18                         | \$395 51   |
| Engines.....                      | 46,357 20           | 36,929 68    | .....      | .....    | .....           | 1,189 87          | \$632 62 | \$858 48 | .....           | .....    | 6,746 55                         |            |
| Boilers.....                      | 25,018 32           | 23,805 99    | .....      | .....    | .....           | 121 10            | .....    | .....    | .....           | .....    | 1,091 23                         |            |
| Moon Island.....                  | 29,515 77           | 23,810 33    | .....      | .....    | 480 00          | .....             | .....    | .....    | 178 05          | .....    | 3,834 35                         | 1,213 04   |
| Main and intercepting sewers..... | 18,195 85           | 14,545 54    | 2,896 00   | .....    | .....           | .....             | .....    | .....    | .....           | .....    | 754 31                           |            |
| Pumping stations:                 |                     |              |            |          |                 |                   |          |          |                 |          |                                  |            |
| Union Park street.....            | 10,217 84           | 7,098 67     | 50 00      | .....    | 2,478 24        | .....             | .....    | .....    | .....           | .....    | 590 93                           |            |
| Summer street.....                | 1,909 91            | 1,273 18     | .....      | .....    | 636 73          | .....             | .....    | .....    | .....           | .....    | .....                            |            |
| Hyde Park.....                    | 1,405 92            | 1,227 50     | .....      | .....    | 137 94          | .....             | .....    | .....    | .....           | .....    | 40 48                            |            |
| Totals.....                       | \$307,323 22        | \$172,011 31 | \$3,026 00 | \$491 77 | \$97,026 52     | \$1,499 75        | \$632 62 | \$858 48 | \$417 01        | \$662 07 | \$29,089 14                      | \$1,608 55 |

## Recapitulation — Maintenance Detail, 1927.

|                                       | Improved<br>Sewerage. | Outside<br>Improved<br>Sewerage. | Totals.      |
|---------------------------------------|-----------------------|----------------------------------|--------------|
| Labor.....                            | \$172,011 31          | \$259,288 61                     | \$431,299 92 |
| Contracts.....                        |                       | 60,605 98                        | 60,605 98    |
| Teaming hired in city.....            | 3,026 00              | 17,225 11                        | 20,251 11    |
| Waste.....                            | 491 77                | 29 01                            | 520 78       |
| Fuel and power.....                   | 97,026 52             | 2,226 24                         | 99,252 76    |
| Oil.....                              | 1,499 75              | 1,753 88                         | 3,253 63     |
| Packing.....                          | 632 62                |                                  | 632 62       |
| Valves.....                           | 858 48                |                                  | 858 48       |
| Transportation, etc.....              | 417 01                | 945 42                           | 1,362 43     |
| Horses, etc.....                      | 662 07                | 1,176 46                         | 1,838 53     |
| Pipe fittings and miscellaneous.....  | 28,768 07             | 16,454 94                        | 45,223 01    |
| Telephone.....                        | 321 07                | 470 59                           | 791 66       |
| Automobile, repairs and supplies..... | 1,608 55              | 43,958 77                        | 45,567 32    |
| Stock supplies and miscellaneous..... |                       | 21,327 51                        | 21,327 51    |
|                                       | \$307,323 22          | \$425,462 52                     | \$732,785 74 |
| CREDITS.                              |                       |                                  |              |
| <i>Outside Improved Sewerage.</i>     |                       |                                  |              |
| Labor.....                            | \$5,486 00            |                                  |              |
| Stock.....                            | 9,984 45              |                                  |              |
| Miscellaneous.....                    | 17,606 50             |                                  |              |
|                                       |                       | 33,076 95                        | 33,076 95    |
| Totals.....                           | \$307,323 22          | \$392,385 57                     | \$699,708 79 |

## SUPPLIES AND FUEL, ENTIRE SERVICE.

*Supplies.*

- 1,163 pounds grease, 18 and 20 cents.
- 2,571 pounds waste, 11 to 16 cents.
- 311 pounds cotton rags, 15 cents.
- 3,313.8 gallons engine oil, 19.3 and 21.3 cents.
- 838.7 gallons cylinder oil, 27.5 and 29.5 cents.
- 5 gallons air cylinder oil, 75 cents.
- 74 gallons sperm oil, \$1.50 and \$1.40.
- 423.8 gallons turbine oil, 49.5 and 65 cents.
- 10 gallons lard oil, \$1.50.
- 1,269 gallons kerosene oil, 10.9 to 16 $\frac{1}{4}$  cents.

*Fuel.*

- 596,247 gallons fuel oil, \$26,523.45.
- 173 tons anhracite, \$2,360.28.
- 3,108.63 tons bituminous, \$21,897.38.



# Cleaning Catch-basins, 1927.—(By Contract.)

| Districts.                          | Contractor.                       | Start and Finish of Work.       | Price per Cubic Yard. | Cubic Yards Examined by Contractor. | Contractor Received by Districts. | Total Basins Cleaned. | Total Drop Inlets Cleaned. | Average Cubic Yards per Basin. | Total Cost of Inspection. | Average Total Cost to City per Basin, Including Drop Inlets. |
|-------------------------------------|-----------------------------------|---------------------------------|-----------------------|-------------------------------------|-----------------------------------|-----------------------|----------------------------|--------------------------------|---------------------------|--|
| 1. City proper.....                 | Patrick J. Healey.....            | {May 9, 1927<br>Dec. 3, 1927}   | \$1 65                | 9,032.64                            | \$14,903 86                       | 2,597                 | 27                         | 3.47                           | \$1,405 19                | \$6 22   |
| 2. Roxbury.....                     | Patrick J. Healey.....            | {May 9, 1927<br>Nov. 20, 1927}  | 1 65                  | 7,539.60                            | 12,440 35                         | 2,088                 | 22                         | 3.6                            | 795 60                    | 6 27   |
| 3. South Boston.....                | Thomas H. Gorman.....             | {May 10, 1927<br>Dec. 1, 1927}  | 1 49                  | 2,765.97                            | 4,121 31                          | 803                   | 7                          | 3.44                           | 991 12                    | 6 31   |
| 4. Charlestown and East Boston..... | Montrose Contracting Company..... | {May 3, 1927<br>Nov. 1, 1927}   | 1 75                  | {1,242.03<br>2,308.61}              | {6,213 61<br>641}                 | {3.52<br>641}         | 8                          | {3.53<br>3.59}                 | 927 68                    | 7 13   |
| 7. Hyde Park.....                   | David W. Norton.....              | {Nov. 16, 1927<br>Dec. 7, 1927} | 1 68                  | 295.34                              | 496 17                            | 99                    | 2                          | 2.97                           | 277 10                    | 7 66   |
| Totals.....                         | .....                             | .....                           | .....                 | 23,184.19                           | \$38,175 30                       | 6,580                 | 66                         | .....                          | \$4,396 69                | .....  |
| Total catch-basins cleaned.....     |                                   |                                 | 6,580                 | Total cost: Contractors.....        |                                   | \$38,175 30           |                            |                                |                           |  |
| Total drop inlets cleaned.....      |                                   |                                 | 66                    | Inspections.....                    |                                   | 4,396 69              |                            |                                |                           |  |
|                                     |                                   |                                 |                       | Advertising.....                    |                                   | 9 50                  |                            |                                |                           |  |
|                                     |                                   |                                 |                       |                                     |                                   | <u>\$42,581 49</u>    |                            |                                |                           |  |

Total cubic yards, material removed, 23,184.19.  
Average cost per basin, including drop inlets, \$6.41.

Average cubic yards, material removed per basin, 3.518.  
Average cost per cubic yard removed, \$1.84.

## Sewerage Works.

Expenditures, January 1, 1927, to December 31, 1927.

| ACCOUNTS.                              | Labor.       | Teaming.   | Materials.  | Miscellaneous. | Paid to Contractors. | Totals.      |
|--|--------------|------------|-------------|----------------|----------------------|--------------|
| Engineers' salaries.....               | \$106,737 94 | .....      | .....       | .....          | .....                | \$106,737 94 |
| Engineers' expense.....                | 5,126 21     | \$336 25   | .....       | \$7,714 88     | \$1,884 68           | 15,062 02    |
| Pumping station.....                   | 300 00       | .....      | 935 00      | 44 00          | 48,401 84            | 49,680 84    |
| Sundries.....                          | 1,776 67     | .....      | 4,539 23    | 127 07         | .....                | 6,442 97     |
| Land takings and court executions..... | .....        | .....      | .....       | 7,434 00       | .....                | 7,434 00     |
| New manholes, entire city.....         | 9,220 88     | 686 50     | 2,949 49    | 855 59         | 8,010 43             | 21,722 89    |
| New catch-basins, South Boston.....    | 2,943 01     | 159 00     | 1,205 60    | 463 71         | 5,501 21             | 10,272 53    |
| New catch-basins, East Boston.....     | 1,338 58     | 42 00      | 417 79      | 30 84          | 1,341 27             | 3,179 48     |
| New catch-basins, Charlestown.....     | 96 72        | 5 00       | 542 00      | .....          | 673 49               | 1,317 21     |
| New catch-basins, Brighton.....        | 1,346 48     | 46 50      | 496 60      | .....          | .....                | 1,889 58     |
| New catch-basins, West Roxbury.....    | 4,417 08     | 152 00     | 1,838 35    | 103 20         | 1,997 89             | 8,509 12     |
| New catch-basins, Dorchester.....      | 4,667 89     | 306 25     | 2,865 40    | 367 96         | 15,533 59            | 23,741 09    |
| New catch-basins, Hyde Park.....       | 235 96       | .....      | 288 50      | .....          | 4,414 71             | 4,939 17     |
| New catch-basins, Roxbury.....         | 10,367 13    | 732 25     | 3,294 39    | 311 39         | 9,389 28             | 24,094 44    |
| New catch-basins, city proper.....     | 13,704 51    | 478 50     | 3,865 10    | 1,950 23       | 13,741 31            | 33,748 65    |
| Sewers built in entire city.....       | 49,489 13    | 101 25     | 26,884 58   | 8,864 44       | 567,705 42           | 653,104 82   |
| Totals.....                            | \$211,768 79 | \$3,105 50 | \$50,122 03 | \$28,285 31    | \$678,505 12         | \$971,876 75 |

# Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.

| LOCATION.  | Begun.         | Finished.     | Built by.           | Length.<br>(Feet.) | Character.  | Amount<br>Expended<br>in 1927. |
|--|----------------|---------------|---------------------|--------------------|---|--------------------------------|
| <b>SOUTH BOSTON.</b>   |                |               |                     |                    |   |                                |
| Binford street, from A street to Necco street and Necco street, from Binford street to Necco street.         | .....          | .....         | .....               | .....              | .....   | \$1,500 00                     |
| East Seventh street, from Columbia road to O street.   | .....          | .....         | .....               | .....              | .....   | 142 29                         |
| Marine road, from I street to K street.  | .....          | .....         | .....               | .....              | .....   | 188 31                         |
| Catch-basins and minor drains in E street, from East First street to a point about 1,440 feet northeasterly. | July 11, 1927  | July 21, 1927 | C. Russo.           | 230                | Catch-basin drains.<br>16 catch-basins.                                     | 4,030 58                       |
| Manholes, catch-basins and catch-basin drain in A street, from Dorchester avenue to Congress street.         | July 26, 1927  | Aug. 30, 1927 | T. J. O'Connell.    | 250                | Catch-basin drains.<br>2 manholes.<br>12 catch-basins.                      | 4,108 14                       |
| Thomas Park, south side, from Covington street to a point 439 feet easterly.                                 | Sept. 16, 1927 | Oct. 13, 1927 | Charles Struzziery. | 439.52<br>16       | 12" pipe, sanitary.<br>Catch-basin drains.<br>3 manholes.<br>1 catch-basin. | 2,356 30                       |
| East Broadway, from I street to Farragut road.   | .....          | .....         | M. DeSisto Company. | 56                 | Catch-basin drain.<br>3 manholes.<br>1 catch-basin.                         | *                              |
| Hardy street.  | .....          | .....         | Private parties.    | 186.72             | 12" pipe, sanitary.   |                                |
| <b>EAST BOSTON.</b>  |                |               |                     |                    |   |                                |
| Ashley street, from Boardman street to Whitby street.  | Nov. 14, 1927  | .....         | A. Grande.          | 226                | 10" pipe, sanitary.<br>1 manhole.   | 406 84                         |

\* See Washington street, city proper.

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.— Continued.

| Location.   | Begun. | Finished. | Built by.               | Length.<br>(Feet.) | Character.                            | Amount<br>Expended<br>in 1927. |
|---|--------|-----------|-------------------------|--------------------|---------------------------------------|--------------------------------|
| <i>EAST BOSTON.—Continued.</i>  |        |           |                         |                    |                                       |                                |
| Marginal street, from about 400 feet west of Jeffries street.   |        |           | M. DeSisto Company..... | 34                 | Catch-basin drain.<br>2 catch-basins. | *                              |
| Chelsea place.....  |        |           | Park Department.....    | 177.10             | 10" pipe, sanitary.<br>1 manhole.     |                                |
| <i>CHARLESTOWN.</i>   |        |           |                         |                    |                                       |                                |
| Tremont street, near Madison avenue.....  |        |           | A. Piatelli.....        | 38.25              | 10" pipe, sanitary.<br>1 manhole.     | †                              |
| <i>BRIGHTON.</i>  |        |           |                         |                    |                                       |                                |
| Antwerp street, from Western avenue to Lincoln street; Ascut street, from Antwerp street to Litchfield street; Benson street, from Antwerp street to Litchfield street; Cygnets street, from Antwerp street to Litchfield street; Duval street, from Antwerp street to Litchfield street. |        |           |                         |                    |                                       | \$11,917 05                    |
| Cambridge street, from Royal street to Mansfield street and outlet in Royal street; Commonwealth avenue, north side, from culvert 600 feet west of Essex street to Essex street.  |        |           |                         |                    |                                       | 1,074 08                       |
| Graylock road, from Glenville road to Allston street; Gordon street, from Pomeroy street to Saunders street; Allston Heights, from Cambridge street to Colon street.  |        |           |                         |                    |                                       | 9,269 36                       |
| Morris street, from Market street to Glencoe street; Brayton road, from Brayton way to Newton line.   |        |           |                         |                    |                                       | 297 28                         |

|   |                |                |                  |  |   |       |       |       |           |
|---|----------------|----------------|------------------|--|---|-------|-------|-------|-----------|
| Montcalm avenue, from Glencoe street to Dustin street; Etna street, from Saybrook street to Montcalm avenue; Murdock street, from Cushman road to Montcalm avenue.  | .....          | .....          | .....            | .....  | .....   | ..... | ..... | ..... | 1,247 52  |
| North Crescent circuit, from Breck avenue to 875 feet easterly.   | .....          | .....          | .....            | .....  | .....   | ..... | ..... | ..... | 455 95    |
| Wade street, from Commonwealth avenue to 650 feet southwesterly.  | .....          | .....          | .....            | .....  | .....   | ..... | ..... | ..... | 363 15    |
| Faneuil street, from Parsons street to Goodenough street; Bennett street, from Oakland street to Parsons street; Ransom road, from 160 feet southwest of Claymoss road to about 120 feet north-easterly; Gardner street, from Alcorn street to 150 feet northwesterly; Parsons street to 85 feet north of Faneuil street. | June 27, 1927  | Sept. 15, 1927 | M. Guarino.....  | 402.26<br>29<br>59.60<br>292.70<br>666.28<br>954.20<br>153.05<br>32<br>238 | 10" pipe, sanitary.<br>12" pipe, sanitary.<br>15" pipe, sanitary.<br>10" pipe, surface.<br>12" pipe, surface.<br>15" pipe, surface.<br>20" and 18" pipe, surface.<br>18" pipe, surface.<br>Catch-basin drain.<br>15 catch-basins.<br>19 manholes. | ..... | ..... | ..... | 11,655 51 |
| Lane park, northerly branch, from Foster street westerly.   | July 25, 1927  | Sept. 14, 1927 | A. Piatelli..... | 417.98<br>409.95   | 10" pipe, sanitary.<br>10" pipe, surface.<br>10 manholes.   | ..... | ..... | ..... | 3,560 21  |
| Gardner street, from Alcorn street to Malvern street.   | Sept. 16, 1927 | Oct. 26, 1927  | M. Guarino.....  | 339.60<br>345.19<br>108  | 10" pipe, sanitary.....<br>18" by 15" pipe, surface.<br>Catch-basin drain.<br>4 manholes.<br>6 catch-basins.  | ..... | ..... | ..... | 3,063 56  |
| Rose Garden circle, from Foster street easterly.  | Dec. 12, 1927  | Jan. 11, 1928  | C. Russo.....    | 235.57<br>226<br>6   | 10" pipe, sanitary.....<br>18" pipe, surface.<br>Catch-basin drain.<br>4 manholes.<br>1 catch-basin.  | ..... | ..... | ..... | 345 90    |
| Colborn road, from Commonwealth avenue to Easton road; Ransom road, from Colborn road to Claymoss road; Easton road, from Claymoss road to Colborn road; Claymoss road, from Commonwealth avenue to Monastery road.   | Sept. 26, 1927 | .....          | J. Todesca.....  | 479.48<br>1,041.27<br>624.55<br>313.90<br>564.30<br>191                    | 24" and 12" pipe, surface.....<br>12" and 10" pipe, surface.<br>15" pipe, surface.<br>10" pipe, surface.<br>10" pipe, sanitary.<br>Catch-basin drain.<br>19 manholes.<br>19 catch-basins.   | ..... | ..... | ..... | 16,081 81 |

See Washington street, city proper.

† See Hyde Park avenue, West Roxbury.

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.— Continued.

| LOCATION.   | Begun.        | Finished.     | Built by.       | Length.<br>(Feet.)                   | Character.  | Amount<br>Expended<br>in 1927. |
|---|---------------|---------------|-----------------|--------------------------------------|---|--------------------------------|
| <i>BRIGHTON.— Continued.</i>  |               |               |                 |                                      |   |                                |
| Reservoir road, from existing sewer to Boston & Albany Railroad.  | Nov. 4, 1927  | Nov. 30, 1927 | Ormac Company   | 110.10<br>94.70                      | 8" pipe, sanitary<br>10" pipe, surface.<br>2 manholes.  | \$1,141 65                     |
| Shepard brook, easterly branch in Arthur street, from Hielborn street to North Beacon street.   | Oct. 31, 1927 | Dec. 21, 1927 | A. Daddario     | 49.18<br>309.41<br>370.76            | 10" pipe, sanitary<br>5' 3" concrete surface.<br>12" pipe, sanitary.<br>5 manholes.                     | 6,092 21                       |
| Durland street, Dunclee road, Seminary road, Gillard road.  |               |               | Private parties | 209.50<br>430.20<br>497.54<br>219.30 | 10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>9 manholes. |                                |
| <i>WEST ROXBURY.</i>  |               |               |                 |                                      |   |                                |
| Morton street, from Morton road to Canterbury street.   |               |               |                 |                                      |   | 4,709 00                       |
| Whiting street, Harwood street, Keith street and Baker street.  |               |               |                 |                                      |   | 427 02                         |
| Corey street, from Centre street to Grayfield avenue.   |               |               |                 |                                      |   | 531 23                         |
| Baker street, from Elmwood street to Centre street; Nut street, from Glendale road to 200 feet southerly; Riverview street, from North avenue to Upland street. |               |               |                 |                                      |   | 3,304 36                       |
| Hillside avenue, from Clarendon avenue to Summer street.  |               |               |                 |                                      |   | 788 01                         |
| Private land, Addington road extended, and West Border road, and West Roxbury Parkway.  |               |               |                 |                                      |   | 3,240 36                       |

|   |       |       |       |       |       |          |
|---|-------|-------|-------|-------|-------|----------|
| Realtor road, from Willowdean avenue to Weld street.  | ..... | ..... | ..... | ..... | ..... | 1,584 19 |
| Rockwood street, from existing sewer to 150 feet northerly.   | ..... | ..... | ..... | ..... | ..... | 1,406 33 |
| View South avenue, from St. Rose street to 180 feet southerly.  | ..... | ..... | ..... | ..... | ..... | 1,101 07 |
| Walworth street, from Brook street to Washington street.  | ..... | ..... | ..... | ..... | ..... | 2,334 54 |
| Willowdean avenue, from Parkvale road to Weld street; St. Peter street, from Paul Gore street to 200 feet southwesterly; North Harvard street, from Bertram street to Kingsley street, Brighton.      | ..... | ..... | ..... | ..... | ..... | 791 09   |
| Goldsmith brook in Pond street, from Moss Hill road to Rockwood street; Rockwood street, from Pond street to private land; private land, from Rockwood street.  | ..... | ..... | ..... | ..... | ..... | 852 25   |
| Pender street, from Dent street to La Grange street; Hopkins road, from Pond street to Mt. Walley road.   | ..... | ..... | ..... | ..... | ..... | 346 56   |
| St. Joseph street, from Woodman street to South street; Dickinson road, from Washington street to 450 feet southwesterly, Brighton; Sunset street, from Eldora street to Parker Hill avenue, Roxbury. | ..... | ..... | ..... | ..... | ..... | 935 39   |
| Stratford street, from Woodward road to West Roxbury Parkway; Woodward road, from West Roxbury Parkway to Stratford street; Boxford terrace, from Park street to 200 feet southwesterly.              | ..... | ..... | ..... | ..... | ..... | 1,276 25 |
| Pershing road, from Centre street to Pond View avenue.  | ..... | ..... | ..... | ..... | ..... | 116 48   |
| Parkway avenue and West Roxbury Parkway; Lasell street, from Harwood street to La Grange street.  | ..... | ..... | ..... | ..... | ..... | 760 89   |
| Maple street, from Addington road to Weld street.   | ..... | ..... | ..... | ..... | ..... | 201 01   |



Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.—Continued.

| LOCATION.   | Begun.         | Finished.      | Built by.                      | Length,<br>(Feet.)                             | Character.   | Amount<br>Expended<br>in 1927. |
|---|----------------|----------------|--------------------------------|--|--|--------------------------------|
| <i>WEST ROXBURY.—Continued.</i>   |                |                |                                |  |  |                                |
| Alaric street, from Spring street to Centre street; Louder's lane, from existing sewer to end of street.  | Nov. 20, 1926  | April 20, 1927 | Joseph Capone.....             | 330.70   | 10" pipe, sanitary<br>3 manholes.  | \$6,309 23                     |
| Stony brook, section 10A and Roslindale branch of Stony brook, from Toll Gate way to Bradeen street.  | June 14, 1926  | Aug. 4, 1927   | J. J. Coughlin Sons Company.   | 13.85<br>213.38<br>16<br>26                    | 17' by 13' 9" concrete conduit.....<br>11' 3" by 10' 9" concrete conduit.<br>24" D. S. pipe, surface.<br>12" C. I. pipe, surface.<br>2 manholes. | 54,153 15                      |
| Private land, from Roslindale avenue to Metropolitan avenue; Pleasant street, from Falcon street to Bobolink street.  | Feb. 9, 1927   | April 23, 1927 | Joseph Tedesca.....            | 100.18<br>66.04<br>369.59<br>40                | 18" pipe, surface.....<br>15" pipe, surface.<br>12" pipe, surface.<br>Catch-basin drain.<br>5 manholes.<br>2 catch-basins.                       | 5,039 73                       |
| La Grange street, from Lasell street to Vermont street; Caspar street, from Metropolitan sewer to Lasell street; Varick road, from Chiswick road to Temple street; Worley street, from Metropolitan sewer to Brook Farm road; Beech street, from Alpheus road to Poplar street. | March 21, 1927 | June 28, 1927  | M. DeSisto Company.....        | 526.42<br>481.50<br>419.47<br>424.40<br>778.99 | 10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>20" and 10" pipe, surface.<br>10" pipe, sanitary.<br>13 manholes.           | 12,420 79                      |
| Russell road, from Weld street to 275 feet southeast of Pierpont road; Pierpont road, from Church street to Theodore Parker road.   | March 21, 1927 | May 2, 1927    | DeCristoforo Brothers Company. | 630.46<br>462.40<br>283.72<br>289.82<br>147    | 15" pipe, surface.<br>12" pipe, surface.<br>10" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drain.<br>11 catch-basins.                   | 6,699 42                       |

|   |               |               |                                     |  |   |           |
|---|---------------|---------------|-------------------------------------|--|---|-----------|
| Vermont street and outlet in private land,<br>from Caspar street to Vermont street.   | Dec. 3, 1926  | June 15, 1927 | V. Barletta.....                    | 2,223.80<br>1,136.02<br>948.82<br>135.11<br>46 | 12" pipe, sanitary.<br>20" pipe, sanitary.<br>20" and 10" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drain.<br>29 manholes.<br>4 catch-basins. | 22,193 03 |
| Winton street, from 350 feet southeast of<br>Hautevale street extension to about 260<br>feet southeast.   | Nov. 22, 1926 | May 11, 1927  | Piatelli & Andreasse.....           | 261.41   | 12" pipe, surface.<br>2 manholes.   | 3,370 80  |
| Montview street, from Carey street to Kirk<br>street.   |               |               |                                     |  |   | 50 19     |
| Rosindale avenue, from Beech street to<br>Dudley avenue.  | May 17, 1927  | June 25, 1927 | Charles Struzziery.....             | 422.82<br>395.05<br>844.83<br>216              | 10" pipe, sanitary.<br>10" pipe, surface.<br>15" pipe, surface.<br>Catch-basin drain.<br>12 manholes.<br>8 catch-basins.                                | 8,177 69  |
| Woodbrier road, from Centre street to 590<br>feet southeasterly; private land, Wood-<br>brier road to Wedgemere road; Wedge-<br>mere road, from Centre street to 560 feet<br>southeasterly; Centre street, from Ded-<br>ham line to Grove street; Centre street,<br>from Glendale road to Woodbrier road. | Oct. 11, 1927 |               | Joseph Todessa.....                 | 660  | 15" pipe, sanitary.<br>4 manholes.  | 4,204 20  |
| Williams street, from Plainfield street to<br>Forest Hills street.  |               |               |                                     |  |   | 288 99    |
| Elbridge road, from Hyde Park avenue to<br>Patten street; Murray Hill road, from<br>Florence street to Washington street.   | May 9, 1927   | June 16, 1927 | DeCristoforo Brothers Com-<br>pany. | 496.24<br>224.54<br>134.51<br>377.31<br>213    | 20" pipe, surface.<br>15" pipe, surface.<br>12" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drain.<br>9 manholes.<br>10 catch-basins.           | 7,820 79  |
| Midvale road, from Maple street to Corey<br>street; Stillman road, from Stonybrook<br>to Washington street.   | May 26, 1927  | July 1, 1927  | A. Cefalo.....                      | 473.20<br>95.20<br>169                         | 12" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drain.<br>5 manholes.<br>10 catch-basins.   | 4,098 99  |

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.— Continued.

| LOCATION.   | Begun.         | Finished.     | Built by.                      | Length.<br>(Feet.)   | Character.  | Amount<br>Expended<br>in 1927. |
|---|----------------|---------------|--------------------------------|--|---|--------------------------------|
| <i>West Roxbury.— Continued.</i>  |                |               |                                |  |   |                                |
| Rossmore road, from Plainfield street to Forest Hills street; Forest Hills street, from Rossmore road to Lotus street.  | April 28, 1927 | June 27, 1927 | A. Cefalo.....                 | 1,095.54   | 10" pipe, sanitary<br>8 manholes.   | \$5,638 01                     |
| Private land, outlet from South street; Metropolitan sewer to South street.   | May 18, 1927   | June 8, 1927  | Zoppo & Civitares.....         | 168.61   | 10" pipe, sanitary<br>2 manholes.   | 1,057 26                       |
| Atlantis street, from Lasell street to Glenham street; Perham street, from Vermont street to Keith street; Knoll street, from existing sewer to Centre street.  | May 24, 1927   | June 25, 1927 | Joseph Todesca.....            | 883.37<br>190.59   | 10" pipe, sanitary<br>12" pipe, surface,<br>6 manholes.   | 3,881 81                       |
| West Border road, from Pelham street to Martin street; West Roxbury Parkway, from Centre street to New York, New Haven & Hartford Railroad; New Park avenue, from West Roxbury Parkway to Beech street; Lasell street, from 150 feet east of Caspar street to Newfield street; Sedgewick street, from existing sewer to South street. | June 8, 1927   | July 26, 1927 | V. Barletta.....               | 767.36<br>734.84<br>130.40<br>200.20<br>192.15<br>251<br>264<br>386.30<br>130.15 | 10" pipe, sanitary,<br>24" to 10" pipe, surface,<br>20" pipe, surface,<br>10" pipe, sanitary,<br>10" pipe, surface,<br>10" pipe, sanitary,<br>12" pipe, surface,<br>10" pipe, sanitary,<br>8" pipe, sanitary,<br>15 manholes. | 10,996 37                      |
| Poplar street, from Dale street to Beech street; Bates street, from Beech street to Alpheus road; Jeffers street, from Bates street to Alpheus road; Mansfield street, from Jeffers street to Alpheus road; Weeks avenue, from Mansfield street to Alpheus road; Alpheus road, from Beech street to Bates street.                     | June 25, 1927  | Aug. 15, 1927 | DeCristoforo Brothers Company. | 2,440.12<br>428.33<br>6  | 10" pipe, sanitary<br>20" pipe, surface,<br>Catch-basin drain,<br>16 manholes,<br>1 catch-basin.  | 9,426 65                       |

|  |                |                |                         |  |  |           |
|--|----------------|----------------|-------------------------|--|--|-----------|
| Cedar street, from Washington street to 600 feet southeast; Hayes street, from Beech street to 332 feet south; Wolf street, from Dent street to 400 feet northeast; Summit street, from La Grange street to 350 feet southwest; Stelman road, from Seear road to 192 feet northwest; Seear road, from Florence street to Stelman road. | July 3, 1927   | Sept. 16, 1927 | A. Cefalo.....          | 598.61<br>332.20<br>400.38<br>399.18<br>649.79<br>606.41<br>330.80<br>256.68 | 10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>20" pipe, sanitary.<br>12" pipe, surface.<br>12" and 10" pipe, surface.<br>10" pipe, surface.<br>27 manholes. | 13,172 41 |
| Olmstead street, from Forest Hills street to Peter Parley road; Park lane and private land, from Olmstead street to 450 feet easterly.   | July 22, 1927  | Oct. 27, 1927  | Joseph Todesea.....     | 389.53<br>408.98<br>54   | 12" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drains,<br>10 manholes.<br>5 catch-basins.   | 7,505 05  |
| St. Joseph street extension, from Woodman street to Arborway.  | Aug. 8, 1927   | Sept. 2, 1927  | C. Russo.....           | 994.77<br>48   | 10" pipe, sanitary.<br>Catch-basin drains,<br>8 manholes.<br>4 catch-basins.   | 3,703 29  |
| Cottage avenue, from Centre street to a point 1,050 feet southeasterly.  | Aug. 22, 1927  | Nov. 20, 1927  | M. DeSisto Company..... | 562.60<br>467.65   | 10" pipe, sanitary.<br>12" pipe, sanitary.<br>6 manholes.  | 6,725 50  |
| Knoll street, from existing sewer to Centre street; St. Peter street, from Boylston street to 360 feet northeasterly.  | Sept. 6, 1927  | Oct. 27, 1927  | A. Grande.....          | 139.66<br>124.85<br>269.85   | 10" pipe, sanitary.<br>10" pipe, surface.<br>10" pipe, sanitary.<br>4 manholes.  | 1,436 05  |
| Emmons road, from Board of Survey street, No. 644 to West Saville street; West Saville street, from Emmons road to La Grange street.   | Sept. 12, 1927 | Oct. 1, 1927   | C. Russo.....           | 570.20   | 10" pipe, sanitary.<br>3 manholes.   | 2,524 48  |
| Nikisch avenue, from Beech street to West Roxbury Parkway.   | Oct. 5, 1927   | Nov. 30, 1927  | A. Grande.....          | 292.20<br>200.30<br>229.53<br>114.27<br>43.12<br>99                          | 20" pipe, surface.<br>18" pipe, surface.<br>15" pipe, surface.<br>12" pipe, surface.<br>2' 3" concrete conduit.<br>Catch-basin drains,<br>7 manholes.<br>7 catch-basins.           | 5,814 02  |

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive. — Continued.

| LOCATION.  | Begun.         | Finished.     | Built by.          | Length.<br>(Feet.)                        | Character.  | Amount<br>Expended<br>in 1927. |
|--|----------------|---------------|--------------------|---|---|--------------------------------|
| <b>WEST ROXBURY. — Continued.</b>  |                |               |                    |   |   |                                |
| Stinson street, from Washington street to Grove street; Grove street, from Stinson street to Birchwood street; Birchwood street, from Washington street to Grove street. | Oct. 5, 1927   | .....         | Charles Struzziery | 735<br>212<br>390<br>125<br>32            | 20" pipe, sanitary.....<br>15" pipe, sanitary.....<br>12" pipe, sanitary.....<br>15" pipe, surface.....<br>Catch-basin drains.....<br>10 manholes.....<br>2 catch-basins..... | \$7,886 55                     |
| Potomac street and outlet in Vermont street.   | .....          | .....         | .....              | .....                                     | .....   | 527 74                         |
| Hodgdon terrace, from Midvale road to 110 feet southeasterly; Pond circle northerly, from Pond street, Guernsey street, from existing conduit to 125 feet easterly.      | Oct. 11, 1927  | Dec. 1, 1927  | M. Guarino         | 109.90<br>314.75<br>313.15<br>124.10<br>8 | 8" pipe, sanitary.....<br>10" pipe, sanitary.....<br>10" pipe, surface.....<br>20" pipe, surface.....<br>10" brook connection.....<br>8 manholes.....                         | 2,999 15                       |
| Hyde Park avenue, from Wymann street to Stony Brook; Lindall street, from Ashland street to 100 feet northeasterly; Tremont street, near Madison avenue, Charlestown.    | Sept. 16, 1927 | Oct. 15, 1927 | A. Piatelli        | 160.57<br>109.44<br>38.25                 | 10" pipe, sanitary.....<br>10" pipe, sanitary.....<br>10" pipe, sanitary.....<br>4 manholes.....  | 1,999 52                       |
| Ferndale road, from Rosindale Branch Stony Brook to Washington street.   | Nov. 1, 1927.  | Nov. 22, 1927 | John Williams      | 801.35                                    | 10" pipe, sanitary.....<br>5 manholes.....  | 2,511 46                       |
| Brook road, from Plainfield street to Forest Hills street.   | Nov. 14, 1927  | Dec. 20, 1927 | John Williams      | 599.70                                    | 10" pipe, sanitary.....<br>3 manholes.....  | 2,757 09                       |
| Zamora court, from Zamora street westerly,   | Nov. 15, 1927  | Dec. 1, 1927  | M. Guarino         | 230.55<br>202.85                          | 10" pipe, sanitary.....<br>10" pipe, surface.....<br>6 manholes.....  | 1,123 01                       |
| Winchester road, from Centre street to about 600 feet westerly.  | Not started    | .....         | A. Grande          | .....                                     | .....   | 8 00                           |

\*

|  |       |          |       |                    |   |   |   |
|--|-------|----------|-------|--------------------|---|---|---|
| Ashland street, from Wood avenue to Washington street.   | Aug.  | 15, 1927 | ..... | A. Baruffaldi..... | 1,713.20<br>1,305.35<br>1,531.80<br>579.80<br>246.70<br>500 | 10" pipe, sanitary.<br>10" pipe, surface.<br>12" pipe, surface.<br>13" pipe, surface.<br>18" pipe, surface.<br>Catch-basin drain.<br>48 manholes.<br>32 catch-basins. | 10" pipe, sanitary.<br>10" pipe, surface.<br>12" pipe, surface.<br>13" pipe, surface.<br>18" pipe, surface.<br>Catch-basin drain.<br>48 manholes.<br>32 catch-basins. |
| Linden and Walworth streets.....   | May   | 21, 1927 | May   | 24, 1927           | 33.50   | 24" pipe, surface.....  | 24" pipe, surface.....  |
| Vale street.....   | ..... | .....    | ..... | .....              | 48.25   | 8" pipe, sanitary.  | 8" pipe, sanitary.  |
| Stella road.....   | ..... | .....    | ..... | .....              | 103.14  | 10" pipe, sanitary.<br>2 manholes.  | 10" pipe, sanitary.<br>2 manholes.  |
| DORCHESTER.  |       |          |       |                    |   |   |   |
| Regina road, from Washington street to Alpha road; Danube street, from 320 feet northeast of Dewey street to 215 feet southwest; Mt. Bowdoin terrace, from 290 feet southeast of Eldon street to 201 feet southeasterly. | ..... | .....    | ..... | .....              | .....   | .....   | .....   |
| Walk Hill street, from Fottler road to Wellington Hill footway; Courtland road, from Morton street to Harvard street.  | ..... | .....    | ..... | .....              | .....   | .....   | .....   |
| Westmore road, from Deering road to 525 feet northwesterly.  | ..... | .....    | ..... | .....              | .....   | .....   | .....   |
| Bismarck street, from Oakland street to Messenger street.  | ..... | .....    | ..... | .....              | .....   | .....   | .....   |
| Myrtlebank avenue, from Elm avenue to Richard terrace; Roanoke road, from Kennebec street to Weybosset street; Hyde Park; Dedham street, from Glenwood avenue to 252 feet southwest, Hyde Park.                          | ..... | .....    | ..... | .....              | .....   | .....   | .....   |

\* Oakland street, Dorchester. † Included in cost of new catch-basins.

723 86

402 07

140 90

300 08

284 37

**Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.—Continued.**

| LOCATION.  | Begun.         | Finished.      | Built by.       | Length.<br>(Feet.) | Character.  | Amount<br>Expended<br>in 1927. |
|--|----------------|----------------|-----------------|--------------------|---|--------------------------------|
| <b>DORCHESTER.—Continued.</b>  |                |                |                 |                    |   |                                |
| Hollingsworth street, from Randolph road to Oakland street, from Hollingsworth street to Chester street, from Codman street to Verduin street, from Codman street to Caruth street; Dunkeld street, from Fayston street to Quincy street; Monton street, from Standard street to Groveland street; Meridian street, from Monmouth street to Noy street, East Boston; Cotting street, from Nashua street to Lowell street, city proper. |                |                |                 |                    |   | \$2,426 37                     |
| Hillsdale street, from Adams street to 820 feet northwesterly.   |                |                |                 |                    |   | 749 17                         |
| Ormond street, from Outlook road to 657 feet north, and northwesterly and outlet in passageway to Goodale road.  |                |                |                 |                    |   | 570 25                         |
| Rockdale street, from Randolph road to 656 feet northeast; Duxbury road, from Riverdale road to River street; Hosmer street, from 163 feet northwest of Norfolk street to 225 feet northwest.  |                |                |                 |                    |   | 2,555 47                       |
| Outlook road, from Ormond street to 525 feet northwesterly.  |                |                |                 |                    |   | 91 85                          |
| Dorchester avenue, from King street to Cheverus road.  | March 17, 1927 | April 22, 1927 | James J. Conway | 104 12<br>49 50    | 15" pipe, sanitary.<br>12" pipe, sanitary.<br>1 manhole.  | 3,193 97                       |
| Delmont street, from Adams street to Charlemont street; private land, from Delmont street to Franconia street.   | March 22, 1927 | April 27, 1927 | A. Cefalo.      | 607 00<br>643 33   | 10" pipe, sanitary.<br>12" pipe, surface.<br>11 manholes. | 4,820 90                       |



|   |                |                |                          |   |   |                    |
|---|----------------|----------------|--------------------------|---|---|--------------------|
| Colorado street, Orlando street and Messenger street.   | April 15, 1927 | May 24, 1927   | C. Russo.....            | 458.78  | 10" pipe, sanitary.....   | 500 00             |
| Milton avenue extension, from Codman Hill avenue to 120 feet northerly; Wilder road, from Normandy street to Blue Hill avenue.  | March 29, 1927 | April 14, 1927 | James J. Conway.....     | 134.10<br>118   | 10" pipe, sanitary.....<br>10" pipe, surface.<br>2 manholes.  | 3,874 91<br>808 32 |
| Goodale road, from about 235 feet southeast of Wellington Hill street to 135 feet northwest.  | Nov. 26, 1926  | March 31, 1927 | N. DeBartolomeo Company, | 205.60  | 10" pipe, sanitary.....<br>2 manholes.  | 1,689 61           |
| Bushnell street, from Weyauke street to Van Winkle street; Lenoxdale avenue, from 205 feet southeast of Milton street to 45 feet southeast; Rosmont road, northeast and southeast, from Adams street to Florida street.   |                |                |                          |   |   |                    |
| Codman street, from Oakridge street to Nevada street; Codman Hill avenue, from Washington street to Milton avenue extension; Milton avenue extension, from Codman street to Codman Hill avenue.   |                |                |                          |   |   | 1,207 16           |
| Elene street, from Alabama street to Wabash street; Wabash street, from Elene street to Prairie street; private land, from Prairie street to Harvard street; Harvard street, from private land to Hazleton street; Hazleton street, from Harvard street to Westmore road. | Nov. 3, 1926   | May 7, 1927    | Charles Struzziery.....  | 1,546.05<br>332.40<br>12<br>18<br>305.64<br>601.45<br>134 | 12" pipe, sanitary.....<br>18" D. S. pipe, surface.<br>20" C. I. pipe, surface.<br>12" C. I. pipe, surface.<br>15" pipe, surface.<br>3' 3" circular concrete conduit.<br>Catch-basin drains.<br>24 manholes.<br>6 catch-basins. | 26,389 92          |
| Fuller street, from Washington street to 1,038 feet westerly; Ruskin road, from Blake street to 250 feet northwesterly; Tyler street, from Loring street to 75 feet southeast.  | Oct. 4, 1926   | May 14, 1927   | George J. Regan.....     | 422.90  | 10" pipe, sanitary.....<br>4 manholes.  | 11,232 10          |
| Fessenden street, from Norfolk street to Blue Hill avenue; Beacon street, from Milton line to New Bedford street, Hyde Park.  | Nov. 12, 1926  | Jan. 10, 1927  | M. Guarino.....          | 7.50  | 12" pipe, surface.....  | 2,144 97           |

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.— Continued.

| LOCATION.   | Begun.         | Finished.      | Built by.            | Length,<br>(Feet.)                                       | Character.  | Amount<br>Expended<br>in 1927. |
|---|----------------|----------------|----------------------|--|---|--------------------------------|
| DORCHESTER.— <i>Continued.</i>  |                |                |                      |  |   |                                |
| Goodale road, from 440 feet southeast of Wellington Hill street to 269 feet northwest; Hazelton street, from 170 feet southwest of Wellington Hill footway to 50 feet northwest; Halborn street, from Delhi street to 190 feet southeast; Ruskin road, from Radcliff road to 125 feet northwest.  | Dec. 2, 1926   | March 29, 1927 | James J. Conway..... | 324.96<br>203.60   | 10" pipe, sanitary.<br>10" pipe, surface.<br>5 manholes.  | \$4,725 70                     |
| Southern Artery, from Evans street to Neponset Bridge.  | April 15, 1927 | June 9, 1927   | Day labor.....       | 139.48<br>321.20<br>21                                   | 10" pipe, sanitary.<br>12" pipe, sanitary.<br>12" pipe, surface.<br>8 manholes.   | 6,592 36                       |
| Southern Artery, from Neponset avenue to about 150 feet southwest.  | June 9, 1927   | Aug. 16, 1927  | James J. Conway..... | 252.16<br>185.40<br>74.12<br>7.50                        | 10" pipe, sanitary.<br>15" pipe, surface.<br>12" pipe, surface.<br>12 C. I. pipe, surface.<br>8 manholes.                       | 5,144 30                       |
| Elm avenue, from Burgoyne street to Adams street.   | .....          | .....          | .....                | .....  | .....   | 95 44                          |
| Norfolk terrace, from Norfolk street to New York, New Haven & Hartford Railroad; Ormond street, from Wellington Hill street to existing sewer 242 feet southeast of Byes road; Myrtlebank avenue, from 117 feet northwest of Milton street to 275 feet northwest; Hazelton street and outlet in Hillsboro road, from Westmore road to Gilmer street; Chester street, from existing sewer in Rockway street to 215 feet northeasterly; Halborn street for existing sewer 172 feet southeast of Delhi street to 182 feet southeasterly. | May 18, 1927   | Sept. 15, 1927 | James J. Conway..... | 196.10<br>502.10<br>275.06<br>374.76<br>209.82<br>233.84 | 12" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>11 manholes. | 7,810 92                       |

|  |      |          |       |          |                     |  |   |           |
|--|------|----------|-------|----------|---------------------|--|---|-----------|
| Crowell street, from Norfolk street to Evans street.   | July | 11, 1927 | July  | 23, 1927 | George J. Regan.    | 587.96<br>48   | 12" pipe, surface.<br>Catch-basin drains.<br>3 manholes.<br>2 catch-basins.   | 1,876 64  |
| Elm avenue, from Burgoyne street to Wilcox road.   | July | 21, 1927 | Aug.  | 3, 1927  | George J. Regan.    | 563.15   | 10" pipe, sanitary.<br>4 manholes.  | 1,739 09  |
| Frontenac street, from Lucerne street to Blue Hill avenue.   | Aug. | 3, 1927  | Aug.  | 9, 1927  | George J. Regan.    | 221.10   | 10" pipe, sanitary.<br>3 manholes.  | 1,338 57  |
| Hosmer street, from existing sewer 388 feet, from Norfolk street to about 400 feet northwest.  | Aug. | 9, 1927  | Sept. | 27, 1927 | George J. Regan.    | 411.40   | 10" pipe, sanitary.<br>2 manholes.  | 3,384 67  |
| Mildred avenue, from Babson street to Play-ground and Quincy street, from Warren street, Roxbury to Columbia road, Dorchester.   | July | 18, 1927 | Aug.  | 10, 1927 | Zoppo & Civitarese. | 195.66<br>645.76<br>222  | 15" pipe, surface.<br>12" pipe, surface.<br>catch-basin drains.<br>11 manholes.<br>14 catch-basins.   | 6,975 90  |
| Donald road, from Blue Hill avenue to Harvard street.  | July | 28, 1927 | Aug.  | 8, 1927  | Charles Struzziery. | 322.08<br>318.15   | 10" pipe, sanitary.<br>12" pipe, surface.<br>4 manholes.  | 1,449 95  |
| Oakland street, from Favre street to Wood avenue; Colorado street, from Croydon street to Oakland street; Croydon street, from Iasca street to Alabama street; Iasca street, from Croydon street 62 feet south to private land; private land, from Hallowell street to Savannah avenue; private land north of Oakland street, from Savannah avenue to Iasca street; Savannah avenue, from 100 feet northeast of Oakland street to 257 feet northeast; Alabama street, from Croydon street to Alabama street; Canaan street, from Alabama street to Livermore street; Ashland street, from Wood avenue to Washington street, West Roxbury.* | Aug. | 15, 1927 | ..... | .....    | A. Baruffaldi.      | 130.70<br>1,370.20<br>482.10<br>220.10<br>282.20<br>257.20<br>683.90<br>204<br>400 | 10" pipe, sanitary.<br>10" pipe, surface.<br>12" pipe, surface.<br>18" pipe, surface.<br>20" pipe, surface.<br>24" pipe, surface.<br>2' 6" circular concrete surface.<br>3' circular concrete surface.<br>Catch-basin drains.<br>32 manholes.<br>25 catch-basins. | 57,877 22 |
| Hazelton street, from Hillsboro road to about 415 feet southeast.  | Aug. | 17, 1927 | Aug.  | 31, 1927 | A. Grande.          | 437.60   | 10" pipe, sanitary.<br>1 manhole.   | 1,102 98  |

\* See West Roxbury.

**Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.—Continued.**

| LOCATION.  | Begun.         | Finished.      | Built by.            | Length.<br>(feet.)               | Character.   | Amount<br>Expended<br>in 1927. |
|--|----------------|----------------|----------------------|----------------------------------|--|--------------------------------|
| <b>DORCHESTER.—Continued.</b>  |                |                |                      |                                  |  |                                |
| Gene street, from Humphreys street to Holden street.   | Sept. 8, 1927  | Sept. 20, 1927 | M. Guarino.....      | 258.25                           | 12" pipe, sanitary.....<br>3 manholes.   | \$1,342 72                     |
| Adams street, from existing sewer 18 feet north of Fairview street to 120 feet northerly.  | Sept. 15, 1927 | Sept. 24, 1927 | A. Grande.....       | 121.50                           | 12" pipe, sanitary.....<br>1 manhole.  | 1,044 28                       |
| Rockdale street, from Oakland street to Randolph road.   | Sept. 29, 1927 | Nov. 14, 1927  | C. Russo.....        | 435.05<br>935.42<br>185          | 15" pipe, surface.....<br>12" pipe, surface.....<br>Catch-basin drains.<br>9 manholes.<br>10 catch-basins.             | 7,452 83                       |
| Vera street, from Southern Artery to 280 feet northerly; Southern Artery, from Oakridge street to 80 feet west of Vera street; Druid street, from Morton street to Southern Artery and north in Morton street, from Oakridge street to Druid street. | Oct. 11, 1927  | .....          | George J. Regan..... | 713.92<br>250<br>63.58<br>148.20 | 10" pipe, sanitary.....<br>12" pipe, sanitary.....<br>13" pipe, sanitary.....<br>12" pipe, surface.....<br>9 manholes. | 3,642 85                       |
| Winston road, from Lacerne street to Willowwood street.  | Sept. 27, 1927 | Oct. 14, 1927  | George J. Regan..... | 240<br>104                       | 10" pipe, surface.....<br>Catch-basin drains.<br>2 manholes.<br>8 catch-basins.  | 3,303 61                       |
| Ginita street, from existing brick sewer, 20 feet southeast of Centre street to 130 feet southeasterly.  | Sept. 27, 1927 | Oct. 11, 1927  | James J. Conway..... | 128.40                           | 10" pipe, sanitary.....<br>1 manhole.  | 787 82                         |
| Charlemont street, from Chelmsford street to 425 feet northerly.   | Oct. 3, 1927   | Oct. 15, 1927  | A. Daddario.....     | 442.02                           | 12" pipe, sanitary.....<br>2 manholes.   | 1,275 31                       |
| Owencroft road, from Southern Artery to Hufcroft avenue extension.   | Oct. 17, 1927  | Nov. 12, 1927  | John Williams.....   | 667                              | 18" pipe, surface.....<br>6 manholes.  | 2,603 03                       |

|  |       |          |       |          |                         |  |  |          |
|--|-------|----------|-------|----------|-------------------------|--|--|----------|
| Rangeley street and outlet in private land,<br>from Southern Artery to Milton street.  | Oct.  | 10, 1927 | Nov.  | 10, 1927 | A. Piatelli.....        | 629 32<br>601 35   | 10" pipe, sanitary.<br>12" pipe surface.<br>7 manholes.  | 3,028 86 |
| Southern Artery, south side, from Emerson<br>avenue 90 feet west and 170 feet east;<br>Emerson avenue, from Morton street to<br>Southern Artery.     | Dec.  | 1, 1927  | ..... | .....    | M. Guarino.....         | 62   | 12" pipe, sanitary.....  | 353 72   |
| Newkirk street, from Manley street to 100<br>feet southwest.   | Oct.  | 24, 1927 | Nov.  | 2, 1927  | John J. Loonie.....     | 100 15   | 10" pipe, sanitary.<br>1 manhole.  | 844 41   |
| Harvard street, from Hazleton street to 195<br>feet northeast.   | Oct.  | 11, 1927 | Nov.  | 23, 1927 | Leo J. Nawn, Inc.....   | 192 20   | 10" pipe, sanitary.<br>1 manhole.  | 1,212 73 |
| Tuttle street and Savin Hill avenue, from<br>existing manhole 45 feet north of Savin<br>Hill avenue to existing manhole at Mildred<br>street.        | Nov.  | 2, 1927  | Nov.  | 18, 1927 | T. J. O'Connell.....    | 131 50   | 12" pipe, sanitary.<br>1 manhole.  | 766 88   |
| Livingstone street, from Aslton street to<br>Laetuerne street.   | Dec.  | 22, 1927 | Jan.  | 2, 1928  | M. DeSisto Company..... | 108 40   | 10" pipe, sanitary.<br>2 manholes.   | 116 77   |
| Dyer avenue, from Blue Hill avenue to 335<br>feet northwest; Harvard street, from 195<br>feet northeast of Hazleton street to 190<br>feet northeast. | Dec.  | 19, 1927 | ..... | .....    | C. Russo.....           | 190  | 10" pipe, sanitary.<br>1 manhole.  | 150 42   |
| Davenport Brook, from existing culvert at<br>Southern Artery to about 800 feet west of<br>existing concrete culvert.                                 | ..... | .....    | ..... | .....    | T. J. O'Connell.....    | .....  | .....  | 7 50     |
| Violante street, from River street to 260<br>feet northeast; Milton street, from Adams<br>street to Milwood street.                                  | ..... | .....    | ..... | .....    | .....                   | 282 02<br>172 75   | 10" pipe, sanitary.<br>10" pipe, sanitary.<br>4 manholes.  | *        |
| Fernald terrace, from Quincy street north-<br>easterly to end.   | ..... | .....    | ..... | .....    | .....                   | 76   | Catch-basin drain.<br>4 catch-basins.  | †        |
| Alicia road, Bowdoin Green, Cheverus road,<br>Francis park, Grayson street, Owencroft<br>road, Stone terrace, Whitten street.                        | ..... | .....    | ..... | .....    | Private parties.....    | 891 72<br>106 65<br>93 60<br>168 85<br>520 93<br>608 97<br>96 35<br>308 36 | 12" pipe, sanitary.<br>10" pipe, sanitary.<br>12" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary.<br>12" pipe, sanitary.<br>10" pipe, sanitary.<br>10" pipe, sanitary. |          |

\* See Sunnyside street, Hyde Park.

† See Washington street, city proper.

Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.—Continued.

| LOCATION.  | Begun.         | Finished.     | Built by.                      | Length.<br>(Feet.)   | Character.  | Amount<br>Expended<br>in 1927. |
|--|----------------|---------------|--------------------------------|--|---|--------------------------------|
| <b>HYDE PARK.</b>  |                |               |                                |  |   |                                |
| Asbland street, from Wood avenue to 56 feet northeast of Pleasantview street; Moody street, from Ashland street to Roanoke road.   |                |               |                                |  |   | \$2,110 04                     |
| Foster street, from Water street to Loring street.   |                |               |                                |  |   | 312 76                         |
| Vose avenue, from Erie street to Pleasant street; Erie street, from Milton street to Vose avenue; Huntington avenue, from Madison street to Collins street.  |                |               |                                |  |   | 964 40                         |
| Ruskin road, from Radcliffe road 125 feet northwest.   |                |               |                                | 1.50   | 8" pipe, sanitary.  |                                |
| Summer Street Brook, private land, Neponset river to River street near Wood avenue.  |                |               |                                |  |   | 1,446 26                       |
| Sunnyside street, from Roxanna street to Church street and outlet in Roxanna street, Hyde Park; Violante street, from River street to 260 feet northeast, Dorchester; Milton street, from Adams street to Millwood street, Dorchester. | April 22, 1927 | July 6, 1927  | A. Grande.                     | 1,149.14   | 10" pipe, sanitary.<br>8 manholes.  | 7,724 90                       |
| Sunnyside street, from Glenwood avenue to Franklin street.   | Aug. 12, 1927  | Aug. 29, 1927 | Zoppo & Civitarese.            | 344  | 10" pipe, sanitary.<br>3 manholes.  | 1,328 13                       |
| River street, from Oakland street to Central avenue; Arlington street, from Pierce street to River street; Pierce street, from West street to Arlington street; Blake street, from River street to 380 feet northwest, private land.   | Aug. 15, 1927  |               | DeCristoforo Brothers Company. | 589.37<br>240<br>350<br>50<br>621.52<br>585<br>1,019.52<br>1,583.93<br>730.35<br>1,262.81<br>340.98<br>1,112.85<br>500 | 3' circular concrete conduit.<br>3' 3" circular concrete conduit.<br>4' circular concrete conduit.<br>5' 9" circular concrete conduit.<br>10" pipe, sanitary.<br>10" and 12" pipe, sanitary.<br>10" pipe, surface.<br>12" pipe, surface.<br>15" pipe, surface.<br>18" pipe, surface.<br>20" pipe, surface.<br>24" pipe, surface.<br>Catch-basin drains.<br>70 manholes.<br>48 catch-basins. | 42,679 03                      |

|  |                |                |                   |                     |  |           |
|--|----------------|----------------|-------------------|---------------------|--|-----------|
| Durant road, from Sunnyside street 200 feet northwest.   | Aug. 15, 1927  | Aug. 29, 1927  | Ormac Company     | 200.70              | 10" pipe, sanitary 1 manhole.  | 959 44    |
| Shirley road, from Sunnyside street 200 feet northwest.  | Aug. 12, 1927  | Sept. 9, 1927  | John J. Loonie    | 193                 | 10" pipe, sanitary 1 manhole.  | 915 14    |
| River street, from Perkins avenue to Cleveland street and outlet in Barry street.  |                |                | John Williams     |                     |  | 7 50      |
| Reservoir street, from Milton avenue to 355 feet easterly.   | Dec. 12, 1927  |                | L. Balboni        | 370                 | 10" pipe, sanitary 2 manholes.   | 136 11    |
| Prescott street, 202 feet northeast of Hawthorne street.   | June. 1, 1927  | June 6, 1927   | Leo J. Nawn, Inc. | 74                  | 10" pipe, sanitary   | †         |
| ROXBURY.   |                |                |                   |                     |  |           |
| Beacon street at Brookline avenue; Beacon street at Charlesgate East and West; A street at Richards street, South Boston; Arlington street, from Columbus avenue to St. James avenue; Providence street, from Church street to St. James avenue. | Oct. 5, 1926   | April 25, 1927 | T. J. O'Connell   | 64.70<br>137<br>112 | 12" pipe, surface.<br>10" pipe, surface.<br>Catch-basin drains.<br>1 manhole.<br>3 catch-basins. | 13,515 78 |
| Dennison street, from Walnut avenue to 627 feet northwesterly.   |                |                |                   |                     |  | 1,090 88  |
| Sunnyside street, from Creighton street to Westerly street.  |                |                |                   |                     |  | 109 65    |
| Dana street, from Dudley street to Cliff street.   |                |                |                   |                     |  | 919 42    |
| Leon street, from Greenleaf street to 375 feet southerly.  |                |                |                   |                     |  | 240 30    |
| Spring court, from Fellows street to 180 feet southeasterly.   |                |                |                   |                     |  | 599 25    |
| Maple street, from Cleney street to 140 feet southerly.  | April 22, 1927 | June 9, 1927   | A. Cellucci       | 166.80              | 12" pipe, sanitary 2 manholes.   | 1,609 65  |
| Creighton street, near Day street; Dudley street, from Harrison avenue to Blue Hill avenue; Warren street, from Quincy street to Blue Hill avenue.   |                |                | Not built.        |                     |  | 7 25      |
| Island street at Gerard street   | Sept. 20, 1927 | Sept. 30, 1927 | F. E. Bowes       | 55.50               | 24" pipe, sanitary   | †         |

† Cost included in new catch-basins.

\* See Dorchester.



Sewerage Works, Construction, January 1, 1927, to December 31, 1927, Inclusive.—Concluded.

| LOCATION.  | Begun.         | Finished.      | Built by           | Length.<br>(feet.)                   | Character.   | Amount<br>Expended<br>in 1927. |
|--|----------------|----------------|--------------------|--------------------------------------|--|--------------------------------|
| <b>ROXBURY.—Continued.</b>   |                |                |                    |                                      |  |                                |
| Cheney street, from Hartwell street to 200 feet northwesterly.         | Aug. 8, 1927   | Sept. 9, 1927  | A. Piatelli        | 194.70<br>200.48                     | 12" pipe, surface.<br>10" pipe, sanitary.<br>1 manhole.  | \$852 58                       |
| Dudley street, from Harrison avenue to Blue Hill avenue.               | June 27, 1927  | July 16, 1927  | S. J. Tomasello    | .....                                | 5 manholes.<br>6 catch-basins.   | 3,483 03                       |
| Brookline avenue, from Fenway to Brookline town line.                  | Aug. 17, 1927  | Sept. 13, 1927 | C. Russo           | 258                                  | Catch-basin drains<br>9 manholes.<br>11 catch-basins.  | 4,878 11                       |
| Bowditch court, from Warren street to about 165 feet westerly.         | Sept. 19, 1927 | Sept. 24, 1927 | M. DeSisto Company | 130.90                               | 12" pipe, sanitary.<br>1 manhole.  | 803 78                         |
| Harold street, from Walnut avenue to Howland street.                   | Sept. 12, 1927 | Oct. 24, 1927  | L. Balboni         | 461.92<br>26.80<br>35<br>59.50<br>55 | 24" pipe, surface.<br>18" pipe, surface.<br>15" pipe, surface.<br>12" pipe, surface.<br>Catch-basin drains.<br>3 manholes.<br>3 catch-basin. | 5,600 26                       |
| Hamden street, from Albany street to a point about 100 feet southerly. | Nov. 10, 1927  | .....          | A. D. Daddario     | 75                                   | 6' by 6" concrete sanitary.<br>3 manholes.   | 3,450 93                       |
| Bowditch court.  | Dec. 13, 1926  | Jan. 15, 1927  | Day labor          | 41.50                                | 12" pipe, sanitary.<br>1 manhole.  | *                              |
| CITY PROPER.   |                |                |                    |                                      |  |                                |
| Liberty square and Batterymarch street.                                | .....          | .....          | .....              | .....                                | Catch-basins   | 292 44<br>370 76               |

|  |                |               |                               |   |   |           |
|--|----------------|---------------|-------------------------------|---|---|-----------|
| Parkman street, from North Anderson street to Blossom street.  | .....          | .....         | .....                         | .....   | .....   | 476 24    |
| Public Alley, No. 554, from Appleton street to Chandler street; Appleton street, from Tremont street to Public Alley No. 554.  | .....          | .....         | .....                         | .....   | .....   | 1,960 51  |
| Faneuil Hall square, Dock square and Union street.   | April 18, 1927 | June 9, 1927  | C. & R. Construction Company. | 10<br>25<br>101.95<br>145.45<br>155.20<br>224 | 24" pipe, sanitary.<br>30" pipe, sanitary.<br>12" pipe, sanitary.<br>15" pipe, sanitary.<br>18" pipe, sanitary.<br>Catch-basin drains.<br>12 manholes.<br>9 catch-basins. | 12,361 26 |
| Kneeland street, from Atlantic avenue to Washington street.  | Aug. 30, 1927  | Oct. 13, 1927 | Zoppo & Civitarese.....       | 550.55<br>288.50                              | 15" pipe, sanitary.<br>Catch-basin drains,<br>10 manholes.<br>16 catch-basins.  | 10,283 46 |
| Piedmont street, from Church street to Arlington street.   | Aug. 23, 1927  | Oct. 5, 1927  | N. DiBartolomeo Company,      | 156.60<br>160.71                              | 15" pipe, sanitary.<br>12" pipe, sanitary.<br>2 manholes.   | 3,803 98  |
| Washington street, from Dover street to Massachusetts avenue; Marginal street, about 400 feet west of Jeffries street, East Boston; East Broadway, from L street to Farragut road. South Boston; Fernald terrace, from Quincy street northeasterly to end, Dorchester. | Sept. 27, 1927 | Nov. 23, 1927 | M. DeSisto Company.....       | 164.50  | Catch-basin drains.<br>4 manholes.<br>5 catch-basins.   | 4,943 71  |
| Arlington street, from Columbus avenue to Fayette street.  | .....          | .....         | Water service.....            | 183.72  | 12" pipe, sanitary.<br>3 manholes.  |           |

\* Cost included in new catch-basins.

## Recapitulation.

| DISTRICTS.         | Linear Feet<br>Sewers. | Linear Feet<br>Catch-basins<br>Drain. | Manholes. | Catch-basins. | Amount<br>Expended<br>in 1927. |
|--------------------|------------------------|---------------------------------------|-----------|---------------|--------------------------------|
| South Boston ..... | 439.52                 | 552                                   | 8         | 30            | \$12,325 62                    |
| East Boston .....  | 403.10                 | 34                                    | 2         | 2             | 406.84                         |
| Charlestown .....  | 38.25                  | .....                                 | 1         | —             | —                              |
| Brighton .....     | 8,611.03               | 543                                   | 63        | 41            | 66,565 24                      |
| West Roxbury ..... | 40,818.35              | 1,570                                 | 292       | 96            | 251,226 45                     |
| Dorchester .....   | 23,093.76              | 1,169                                 | 186       | 69            | 192,243 73                     |
| Hyde Park .....    | 10,828.67              | 500                                   | 85        | 48            | 58,583 71                      |
| Roxbury .....      | 1,649.80               | 425                                   | 26        | 25            | 37,260 87                      |
| City proper .....  | 1,489.18               | 677                                   | 31        | 30            | 34,492 36                      |

## Length of Sewers Built by Private Parties.

| DISTRICT.          | Linear Feet<br>Sewers. | Manholes. |
|--------------------|------------------------|-----------|
| South Boston ..... | 186 72                 | —         |
| Brighton .....     | 1,356.54               | 9         |
| West Roxbury ..... | 151.39                 | 2         |
| Dorchester .....   | 2,795.37               | —         |

New Catch-basins and Manholes Built by Day Labor and Contract  
January 1, 1927, to December 31, 1927, Inclusive.

| DISTRICT.          | Catch-basins. | Manholes. | Total Cost.  |
|--------------------|---------------|-----------|--------------|
| South Boston ..... | 25            | 3         | \$11,358 53  |
| East Boston .....  | 7             | 10        | 6,799 48     |
| Charlestown .....  | 11            | 2         | 2,037 21     |
| Brighton .....     | 5             | 6         | 4,061 58     |
| West Roxbury ..... | 19            | 8         | 11,405 12    |
| Dorchester .....   | 53            | 5         | 25,551 09    |
| Hyde Park .....    | 9             | —         | 4,939 17     |
| Roxbury .....      | 41            | 10        | 27,714 44    |
| City proper .....  | 66            | 16        | 39,547 54    |
| Totals .....       | 236           | 60        | \$133,414 16 |

## SEWERAGE WORKS LOAN, 1927.

|  |                     |
|--|---------------------|
| Engineers' salaries, general . . . . .             | \$106,737 94        |
| Amount charged to construction of sewers . . . . . | 25,309 00           |
|  | <hr/>               |
|  | <u>\$132,046 94</u> |

## ENGINEERING EXPENSE.

|                          |                    |
|--------------------------|--------------------|
| Labor . . . . .          | \$5,126 21         |
| Teaming . . . . .        | 336 25             |
| Borings . . . . .        | 1,884 68           |
| Transportation . . . . . | 2,874 20           |
| Supplies, etc. . . . .   | 4,840 68           |
|                          | <hr/>              |
|                          | <u>\$15,062 02</u> |

## PUMPING STATION CONSTRUCTION.

|                          |                    |
|--------------------------|--------------------|
| Advertising . . . . .    | \$44 00            |
| Labor . . . . .          | 300 00             |
| Contracts . . . . .      | 48,401 84          |
| Materials, etc . . . . . | 935 00             |
|                          | <hr/>              |
|                          | <u>\$49,680 84</u> |

## SUNDRIES.

|   |                   |
|---|-------------------|
| Labor . . . . .                         | \$1,776 67        |
| Materials . . . . .                     | 46,312 63         |
| Miscellaneous . . . . .                 | 127 07            |
|   | <hr/>             |
|   | \$48,216 37       |
| Less material charged to jobs . . . . . | 41,773 40         |
|   | <hr/>             |
|   | <u>\$6,442 97</u> |

## COURT EXECUTIONS AND AWARDS ON ACCOUNT OF LAND-TAKINGS, ETC.

|  |            |
|--|------------|
| George E. Wentworth, assignee, Water street and Neponset river, Hyde Park . . . . .                        | \$237 87   |
| Boston Catholic Cemetery Association, private land between Harvard and Perry streets, Dorchester . . . . . | 500 00     |
| L. H. Morrell, Colorado street, Dorchester . . . . .   | 75 00      |
| Anna L. Cassaboom, Robin street, West Roxbury, . . . . .   | 100 00     |
| Margaret Welsh, Faneuil street, Brighton . . . . .   | 87 53      |
| Mary Agnes Meade, private land between Harvard street and Prairie streets, Dorchester . . . . .            | 25 00      |
|  | <hr/>      |
| <i>Carried forward</i> . . . . .   | \$1,025 40 |

|   |                   |
|---|-------------------|
| <i>Brought forward</i> . . . . .  | \$ 1,025 40       |
| Hattie B. Coyne, Mt. Bowdoin terrace, Dorchester . . . . .                                | 17 20             |
| — McNally, Faneuil street, Brighton . . . . .   | 45 00             |
| Joseph M. Conry, Rockwood street, West Roxbury . . . . .                                  | 701 40            |
| Katherine McNutty, Faneuil street, Brighton . . . . .                                     | 200 00            |
| V. Barletta, Oswego street overflow (contract) . . . . .                                  | 5,000 00          |
| Edward J. and Elizabeth Soderlund, private land off Winter street, West Roxbury . . . . . | 100 00            |
| H. C. Corbin, Itasca street, Dorchester . . . . .   | 300 00            |
| Laura Gould, Itasca street, Dorchester . . . . .  | 45 00             |
|   | <hr/>             |
|   | <u>\$7,434 00</u> |

## EAST BOSTON PUMPING STATION AND OUTLET.

|                               |                   |
|-------------------------------|-------------------|
| Engineers' salaries . . . . . | \$1,867 06        |
| Borings . . . . .             | 179 17            |
| Advertising . . . . .         | 37 38             |
|                               | <hr/>             |
|                               | <u>\$2,083 61</u> |

**Summary of Sewer Construction for Twelve Months Ended  
December 31, 1927.**

| DISTRICT.         | Built by<br>City by<br>Contract or<br>Day Labor. | Built by<br>Private<br>Parties. | Total Length Built. |               |
|-------------------|--|---------------------------------|---------------------|---------------|
|                   | <i>Linear Feet.</i>                              | <i>Linear Feet.</i>             | <i>Linear Feet.</i> | <i>Miles.</i> |
| City proper.....  | 1,305.46   | 183.72                          | 1,489.18            | 0.282         |
| Roxbury.....      | 1,649.80   | .....                           | 1,649.80            | 0.312         |
| South Boston..... | 439.52   | 186.72                          | 626.24              | 0.119         |
| East Boston.....  | 226.00   | 177.00                          | 403.00              | 0.076         |
| Charlestown.....  | 38.25  | .....                           | 38.25               | 0.007         |
| Brighton.....     | 8,600.86   | 1,356.54                        | 9,957.40            | 1.886         |
| West Roxbury..... | 40,738.80  | 151.39                          | 40,890.19           | 7.744         |
| Dorchester.....   | 23,371.78  | 9,643.87                        | 33,015.65           | 6.253         |
| Hyde Park.....    | 10,828.67  | .....                           | 10,828.67           | 2.051         |
| Totals.....       | 87,199.14  | 11,699.24                       | 98,898.38           | 18.730        |

**Net Increase in Length of Sewers Between January 1, 1927, and  
December 31, 1927.**

| DISTRICT.   | Length of<br>Sewers Built<br>During the<br>Twelve<br>Months<br>Ended<br>December 31,<br>1927. | Length of<br>Sewers Re-<br>built or<br>Abandoned<br>During the<br>Twelve<br>Months.<br>Ended<br>December 31,<br>1927. | Net Increase for<br>Twelve Months Ended<br>December 31, 1927. |               |
|---|---|---|---|---------------|
|   |   |   |   |               |
|   | <i>Linear Feet.</i>   | <i>Linear Feet.</i>   | <i>Linear Feet.</i>   | <i>Miles.</i> |
| City proper.....  | 1,489.18  | 456.31  | 1,032.87  | 0.196         |
| Roxbury.....  | 1,649.80  | 7.00  | 1,642.80  | 0.310         |
| South Boston.....   | 626.24  | .....   | 626.24  | 0.119         |
| East Boston.....  | 403.00  | 226.00  | 177.00  | 0.034         |
| Charlestown.....  | 38.25   | .....   | 38.25   | 0.007         |
| Brighton.....   | 9,957.40  | 761.88  | 9,195.52  | 1.741         |
| West Roxbury.....   | 40,890.19   | 40.85   | 40,849.34   | 7.737         |
| Dorchester.....   | 33,015.65   | 951.58  | 32,064.07   | 6.073         |
| Hyde Park.....  | 10,828.67   | .....   | 10,828.67   | 2.051         |
| Totals.....   | 98,898.38   | 2,443.62  | 96,454.76   | 18.268        |
| <i>Total Length of Sewers.</i>  |   |   |   | <i>Miles.</i> |
| Common sewers and surface drains previous to January 1, 1927.....                                       |   |   |   | 1,010.32      |
| Net increase of common sewers and surface drains between January 1, 1927,<br>and December 31, 1927..... |   |   |   | 18.27         |
| Total common sewers and surface drains to December 31, 1927.....  |   |   |   | 1,028.59      |
| Intercepting sewers connecting with Metropolitan sewers to December 31,<br>1927.....                    |   |   |   | * 6.81        |
| Boston main drainage intercepting sewers to December 31, 1927.....                                      |   |   |   | * 24.12       |
| Grand total of common and intercepting sewers to December 31, 1927,                                     |   |   |   | 1,059.52      |
| Total mileage of streets containing sewerage works to December 31, 1927,                                |   |   |   | 619.90        |

\* No additional lengths during the year 1927.

**Summary of Sewer Construction for Five Years Previous to  
December 31, 1927.**

|   | 1923.               | 1924.               | 1925.*              | 1926.               | 1927.               |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
|   | <i>Linear Feet.</i> | <i>Linear Feet.</i> | <i>Linear Feet.</i> | <i>Linear Feet.</i> | <i>Linear Feet.</i> |
| Built by city by contract or day labor..... | 41,076.39           | 50,708.89           | 75,241.99           | 72,958.49           | 87,199.14           |
| Built by private parties.....               | 2,609.10            | 4,566.88            | 10,296.40           | 4,009.55            | 11,699.24           |
| Totals.....                                 | 43,685.49           | 55,275.77           | 85,538.39           | 76,968.04           | 98,898.38           |

\* Fiscal year changed to end December 31. Data is for eleven (11) months only.

**Catch-basins in Charge of Sewer Division.**

| DISTRICTS.        | CATCH-BASIN DATA FOR TWELVE MONTHS ENDED DECEMBER 31, 1927. |                              |               | TOTAL FOR WHOLE CITY IN CHARGE OF SEWER DIVISION. |                                 |
|-------------------|---|------------------------------|---------------|---|---------------------------------|
|                   | Number Built or Rebuilt.                                    | Number Abandoned or Removed. | Net Increase. | Previous Report to January 1, 1927.               | Grand Total to January 1, 1928. |
| City proper.....  | 101   | 80                           | 21            | 3,402   | 3,423                           |
| Roxbury.....      | 69  | 25                           | 44            | 3,012   | 3,056                           |
| South Boston..... | 53  | 13                           | 40            | 1,281   | 1,321                           |
| East Boston.....  | 9   | .....                        | 9             | 925   | 934                             |
| Charlestown.....  | 11  | .....                        | 11            | 775   | 786                             |
| Brighton.....     | 46  | .....                        | 46            | 1,457   | 1,503                           |
| West Roxbury..... | 116   | 2                            | 114           | 2,404   | 2,518                           |
| Dorchester.....   | 220   | 8                            | 212           | 3,777   | 3,989                           |
| Hyde Park.....    | 57  | 8                            | 49            | 410   | 459                             |
| Totals.....       | 682   | 136                          | 546           | 17,443  | 17,989                          |



Table of Approximate Quantities, Lifts and Duties at Calf Pasture Pumping Station, from January 1, 1927, to December 31, 1927, Inclusive.

| Month.         | Total Gallons Pumped. | Average per Day Gallons. | Minimum per Day Gallons. | Maximum per Day Gallons. | Average Lift, Feet. | AVERAGE DAILY DUTY IN MILLION FOOT-POUNDS. |                 |                    |
|----------------|-----------------------|--------------------------|--------------------------|--------------------------|---------------------|--|-----------------|--------------------|
|                |                       |                          |                          |                          |                     | Per 100 Pounds Coal.                       | Per Gallon Oil. | Per Kilowatt Hour. |
| January.....   | 3,878,871,216         | 123,125,590              | 112,895,784              | 149,509,576              | 35.4                | .....                                      | 6.0             | 2.6                |
| February.....  | 3,687,662,910         | 131,702,245              | 118,790,540              | 130,437,932              | 35.4                | .....                                      | 5.8             | 2.0                |
| March.....     | 3,798,278,372         | 123,234,786              | 120,001,404              | 155,346,624              | 35.4                | .....                                      | 5.6             | 2.2                |
| April.....     | 3,234,545,292         | 107,818,176              | 99,164,372               | 141,392,495              | 35.4                | 57.5                                       | .....           | 1.7                |
| May.....       | 3,654,263,294         | 117,879,461              | 95,103,240               | 145,636,436              | 35.4                | 56.2                                       | .....           | 2.2                |
| June.....      | 3,450,679,324         | 115,022,644              | 119,597,308              | 149,805,236              | 35.4                | 52.5                                       | .....           | 2.2                |
| July.....      | 3,605,967,062         | 116,321,518              | 94,494,844               | 142,914,936              | 35.4                | 53.5                                       | .....           | 1.9                |
| August.....    | 4,081,863,910         | 131,672,237              | 90,435,384               | 159,282,720              | 35.4                | 50.8                                       | .....           | 2.1                |
| September..... | 4,457,070,888         | 143,776,480              | 120,736,520              | 173,615,392              | 35.4                | 47.0                                       | .....           | 2.2                |
| October.....   | 3,824,157,507         | 123,359,920              | 74,578,773               | 169,428,301              | 35.4                | 54.0                                       | 7.4             | 2.1                |
| November.....  | 3,431,562,523         | 114,383,417              | 91,043,172               | 125,442,730              | 35.4                | .....                                      | 6.8             | 1.7                |
| December.....  | 3,664,678,295         | 118,215,429              | 83,796,335               | 123,442,730              | 35.4                | .....                                      | 7.0             | 2.7                |
| Totals.....    | 44,760,560,593        | 1,467,511,903            | .....                    | .....                    | .....               | 371.5                                      | 38.6            | 25.6               |
| Averages.....  | 123,631,673           | 122,292,654              | .....                    | .....                    | .....               | 53.1                                       | 6.4             | 2.1                |

NOTE.—11,736,629,330 gallons pumped by coal; 3,222 tons used.  
 13,116,568,263 gallons pumped by oil; 398,616 gallons used.  
 19,907,423,000 gallons pumped by electric power; 2,882,900 K. W. hours.  
 44,760,560,593

**Cost of Pumping at Calf Pasture Pumping Station January 1,  
1927, to December 31, 1927, Inclusive.**

| ITEMS.                                   | Cost.        | Cost per<br>Million Foot<br>Gallons. |
|--|--------------|--------------------------------------|
| Labor.....                               | \$87,987 50  | \$0.05553                            |
| Fuel oil.....                            | 26,764 95    | .01689                               |
| Electric power.....                      | 44,552 26    | .02812                               |
| Coal.....                                | 23,940 38    | .01511                               |
| Oils and waste.....                      | 1,829 94     | .00115                               |
| Rubber valves and packing.....           | 2,123 67     | .00135                               |
| Miscellaneous supplies and renewals..... | 11,614 42    | .00733                               |
| Cleaning No. 1 and No. 2 wells.....      | 7,020 00     | .00443                               |
| Major repairs on No. 5 engine.....       | 33,720 48    | .02128                               |
| Totals.....                              | \$239,553 60 | \$0.15119                            |
| Labor at screens.....                    | 8,138 00     | .00513                               |

**Sludge Deposited and Removed from Deposit Sewers at Calf  
Pasture Pumping Station from January 1, 1927, to December  
31, 1927, Inclusive.**

|  | North Sewer<br><i>Cubic Yards.</i> | South Sewer<br><i>Cubic Yards.</i> | Total,<br><i>Cubic Yards.</i> |
|--|------------------------------------|------------------------------------|-------------------------------|
| Sludge in sewers on January 1, 1927.....   | 1,295                              | 897                                | 2,192                         |
| Sludge deposited during the year 1927..... | 782                                | 308                                | 1,090                         |
| Totals.....                                | 2,077                              | 1,205                              | 3,282                         |
| Sludge removed during year 1927.....       | 1,624                              | 729                                | 2,353                         |
| Sludge in sewers on January 1, 1928.....   | 453                                | 476                                | 929                           |

Amount of Refuse Removed from Screen Hoist at Calf Pasture  
Pumping Station, January 1, 1927, to December 31, 1927,  
Inclusive.

| MONTH.         | Number<br>Cheeses. | Weight<br>(Pounds.) |
|----------------|--------------------|---------------------|
| January.....   | 145                | 34,945              |
| February.....  | 136                | 32,776              |
| March.....     | 128                | 30,848              |
| April.....     | 154                | 37,114              |
| May.....       | 142                | 34,222              |
| June.....      | 118                | 28,438              |
| July.....      | 123                | 29,643              |
| August.....    | 89                 | 21,449              |
| September..... | 83                 | 20,003              |
| October.....   | 137                | 33,017              |
| November.....  | 127                | 30,607              |
| December.....  | 138                | 33,258              |
| Totals.....    | 1,520              | 366,320             |

Cheeses average 241 pounds.

APPENDIX F.

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REPORT OF THE DIVISION ENGINEER OF  
THE WATER DIVISION.

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BOSTON January, 1, 1928.

*To the Commissioner of Public Works:*

The following report of the operation, income and expenditures of the Water Division for the year ending December 31, 1927, is respectfully submitted.

During the year building construction and continued property development, principally in Dorchester and West Roxbury, called for the laying of 9.63 miles of 6-inch to 16-inch water pipe; 3.3 miles were laid in Dorchester, 3.8 miles in West Roxbury and one mile in Hyde Park. A contract for laying 4,000 linear feet of 48-inch water pipe in Charles street, Columbus avenue and Arlington street, awarded in October 1926, and on which work had ceased at the end of the working season in 1926, was completed during the year by the laying of 2,700 linear feet of 48-inch pipe with the exception of the installation of the steel pipe in the tunnel under the railroad tracks at Arlington square. This supply main was occasioned by the abandonment of the two 30-inch water mains in Tremont street, between Appleton and Boylston streets, as a consequence of the Tremont street widening, which necessitated the removal of the older mains formerly carried over the New York, New Haven & Hartford Railroad and the Boston & Albany Railroad tracks by an independent pipe bridge. The unsatisfactory location of the water mains in Tremont street, between Warrenton and Stuart streets was also a factor in selecting a new location for the new water main to replace these mains to be abandoned. The construction of the reinforced concrete tunnel 8 feet 6 inches in diameter with steel pipe shafts 10 feet in diameter, the tunnel depth under the railroad tracks being 40 feet below said tracks and in which the 48-inch main will be laid, was not completed until December 1,

although work started in February, consequently the laying of the water pipe in the tunnel which completes the work under contract could not be finished. Early in the coming spring the 48-inch supply main replacing the 30-inch mains mentioned above will be in service.

The construction of the Southern Artery by the Commonwealth of Massachusetts, presented the opportunity to complete the 24-inch supply main strengthening the distribution system of Neponset and the southern section of Dorchester, and 3,100 linear feet of 24-inch pipe was laid in the Artery connecting the 24-inch main ending at Adams street and Minot street with the 36-inch main running through Washington street, Dorchester. The Dock square widening allowed the relaying of 750 linear feet of the old 24-inch main laid in 1849, with new cast-iron 24-inch pipe. The old pipe showed a serious state of deterioration after being buried in the salt marsh soil for eighty years.

The demand for pipe extensions prevented the relaying of small sized water pipes with larger sizes to the amount of the yearly program of about 5 miles. During the year only 13,960 linear feet or 2.6 miles of 4-inch and 6-inch pipe was relaid with 8-inch and 12-inch pipe for the purpose of improving the fire protection and furnishing the quantity of water demanded by the modern type of fire engines.

Among the greater lengths relaid were:

#### SOUTH BOSTON.

D street, between Bells court and Second streets, 2,269 linear feet of 12 inch relaid with 12-inch pipe. This pipe was laid in 1849 and at points was 9 feet deep.

#### CITY PROPER.

Mason street, between West and Avery streets, 257 linear feet of 6-inch relaid with 12-inch pipe.

Grenville place, off Columbus avenue, 140 linear feet of 6-inch relaid with 12-inch pipe.

Warrenton street, between Tremont and Stuart streets, 508 linear feet of 6-inch relaid with 12-inch pipe.

#### DORCHESTER.

Glide street, between Oak avenue and Minot street, 302 linear feet of 6-inch relaid with 8-inch pipe.

Southern Artery, between Grayson street and Cushing Hill road, 729 linear feet of 8-inch relaid with 12-inch pipe.

#### HYDE PARK.

Arlington street, between Providence street and Hyde Park avenue, 419 linear feet of 4-inch relaid with 8-inch pipe.

Metropolitan avenue, between River and Westminster streets, 1,225 linear feet of 6-inch relaid with 12-inch pipe.

Glenwood avenue, between Beaver and Child streets, 230 linear feet of 6-inch relaid with 12-inch pipe.

Cleveland street, between Child and Beaver streets, 330 linear feet of 6-inch relaid with 12-inch pipe.

Sunnyside street, between Franklin and Church streets, 938 linear feet of 4-inch relaid with 12-inch pipe.

Thompson street, between Glenwood and Franklin streets, 520 linear feet of 4-inch relaid with 12-inch pipe.

Franklin street, between Thompson street and Sunnyside, 361 linear feet of 4-inch relaid with 12-inch pipe.

The construction of the Southern Artery, River street, etc., in consequence of the drastic grade changes called for the lowering, raising and relocating of 7,150 linear feet of 6-inch, 8-inch and 12-inch pipes.

Twenty-eight contracts were awarded at various times during the year to care for the applications for main pipe extension as received.

Service pipes to the number of 2,228, varying in size from  $\frac{5}{8}$ -inch to 12-inch were installed during the year and of this number 118 were 4-inch pipes laid to provide sprinkler protection.

The regular work of the Distribution Branch, consisting of leaks, repairs, establishing fire and service pipes, freeing stoppage, shutting off and letting on water, etc., was performed in such a manner and at such times as to provide a minimum of delay and discomfort to applications for water, to water takers and to the traveling public; practically all our work in the business section is now done on Sundays to meet the above conditions.

The Legislative Acts of 1907, were complied with and 521 meters were set on old services in existence previous to 1907, and 1,940 meters were set on new services, a total of 2,461 meters. On December 31, 1927, the

total number of meters in service was 93,857, and there remains to meter about 1,000 miscellaneous houses in various sections of the city. With 99 per cent of Boston metered, the work performed by the Meter Branch has increased and 8,784 meters have been changed and reset and 2,319 meters have been repaired in service, in addition to the installations on new and old services.

The collections for all purposes in the Water Division were \$4,080,772.65 and the statute making water bills a lien on real estate is an important factor in having the bills paid and paid promptly.

Respectfully submitted,

C. J. CARVEN,  
*Division Engineer.*



## FINANCIAL STATEMENT.

## RECEIPTS.

|   |                |
|---|----------------|
| Sales of water . . . . .                                | \$3,913,117 06 |
| Service pipes new and repairs . . . . .                 | 107,146 28     |
| Fire motor and elevator pipes new and repairs . . . . . | 31,566 11      |
| Sales of merchandise . . . . .                          | 7,257 08       |
| Fees for summonses . . . . .                            | 7,157 13       |
| Labor and materials for miscellaneous . . . . .         | 3,737 13       |
| Damages and repairs to hydrants . . . . .               | 3,100 35       |
| Shutting off and letting on water . . . . .             | 2,734 00       |
| Interest on bank deposits . . . . .                     | 2,321 65       |
| Premium on water loans . . . . .                        | 1,094 20       |
| Board of horses . . . . .                               | 546 00         |
| Interest on water loans . . . . .                       | 447 22         |
| Testing water meters . . . . .                          | 288 75         |
| Delivering water . . . . .                              | 139 49         |
| Rent of conduit, Congress street . . . . .              | 100 00         |
| Sales of old materials . . . . .                        | 20 00          |
| Penalty on coal . . . . .                               | 20             |

|  |                   |
|--|-------------------|
| Gross income . . . . .   | \$4,080,772 65    |
| Transferred to City Loan account to pay<br>Hyde Park Water Debt . . . . .      | \$16,000 00       |
| Transferred to appropriation for Service<br>Mains and Relaying Mains . . . . . | 90,000 00         |
| Transferred to credit of Collecting Depart-<br>ment . . . . .                  | 53,356 03         |
|  | <u>159,356 03</u> |

|                                   |                |
|-----------------------------------|----------------|
| Net income . . . . .              | \$3,921,416 62 |
| Balance January 1, 1927 . . . . . | 27,914 62      |

\$3,949,331 24

## EXPENDITURES.

|   |                |
|---|----------------|
| Current expenses and extensions . . . . . | \$1,483,018 23 |
| Interest on water loans . . . . .         | 52,940 00      |
| Serial loans . . . . .                    | 200,000 00     |
| Refunded water rates . . . . .            | 1,052 80       |
| Metropolitan water assessn.ent . . . . .  | 2,155,188 41   |

Total expenditures 1927 . . . . . 3,892,199 44

Balance December 31, 1927 . . . . . \$57,131 80

## APPROPRIATION FOR SERVICE MAINS AND RELAYING MAINS.

|  |            |
|--|------------|
| Balance unexpended January 1, 1927 . . . . .       | \$7,864 99 |
| Appropriation from Water Income May 1927 . . . . . | 90,000 00  |

Total appropriation 1927 . . . . . \$97,864 99

Expended during fiscal year 1927 . . . . . 71,595 99

Balance unexpended December 31, 1927 . . . . . \$26,269 00

## APPROPRIATION FOR EXTENSION OF WATER MAINS (LOAN).

|  |                     |
|--|---------------------|
| Balance unexpended January 1, 1927 . . . . .   | \$238,566 12        |
| Loan issued in 1927 . . . . .                  | 200,000 00          |
| Total appropriations 1927 . . . . .            | <u>\$438,566 12</u> |
| Expended during fiscal year 1927 . . . . .     | 282,524 21          |
| Balance unexpended December 31, 1927 . . . . . | <u>\$156,041 91</u> |

## APPROPRIATION FOR LAYING AND RELAYING STREET WATER MAINS (LOAN).

|  |                   |
|--|-------------------|
| Balance unexpended January, 1 1927 . . . . .   | \$19,824 84       |
| Expended during fiscal year 1927 . . . . .     | 13,244 66         |
| Balance unexpended December 31, 1927 . . . . . | <u>\$6,580 18</u> |

Details of expenditures under appropriation for current expenses for the fiscal year 1927.

## EXTENSION.

|                                     |                 |
|-------------------------------------|-----------------|
| Construction of new mains . . . . . | \$163,117 25    |
| Replacement of old mains . . . . .  | 53,601 12       |
| New hydrants . . . . .              | <u>7,213 75</u> |
| Total extension . . . . .           | \$223,932 12    |

## MAINTENANCE.

## Office and Engineering Branch:

|  |               |
|--|---------------|
| Salaries and wages . . . . .               | \$48,419 21   |
| Traveling expenses . . . . .               | 864 57        |
| Printing, stationery and postage . . . . . | 3,743 13      |
| Miscellaneous . . . . .                    | <u>804 86</u> |
|  | \$53,831 77   |

## Income Branch:

|  |                 |
|--|-----------------|
| Salaries and wages . . . . .               | \$149,127 30    |
| Traveling expenses . . . . .               | 2,196 06        |
| Printing, stationery and postage . . . . . | 4,498 53        |
| Miscellaneous . . . . .                    | <u>2,257 01</u> |
|  | 158,078 90      |

## Distribution Branch:

|  |                 |
|--|-----------------|
| Salaries and Wages . . . . .               | \$42,921 45     |
| Traveling expenses . . . . .               | 403 18          |
| Printing, stationery and postage . . . . . | 1,092 73        |
| Miscellaneous . . . . .                    | <u>2,555 06</u> |
|  | 46,972 42       |

## Meter Branch:

|   |               |
|---|---------------|
| Salaries and wages . . . . .                        | \$18,038 25   |
| Traveling expenses . . . . .                        | 41 76         |
| New meters and setting . . . . .                    | 28,424 52     |
| Meters, repairing, resetting, testing, etc. . . . . | 53,591 94     |
| Printing, stationery and postage . . . . .          | <u>303 16</u> |

|                           |              |              |                     |
|---------------------------|--------------|--------------|---------------------|
| Carried forward . . . . . | \$100,399 63 | \$258,883 09 | <u>\$223,932 12</u> |
|---------------------------|--------------|--------------|---------------------|

|  |              |              |                       |
|--|--------------|--------------|-----------------------|
| <i>Brought forward</i>                                     | \$100,399 63 | \$258,883 09 | \$223,932 12          |
| Holiday  | 5,216 57     |              |                       |
| Shops  | 18,087 83    |              |                       |
| Laborers' Vacations  | 853 11       |              |                       |
| Miscellaneous  | 170 42       |              |                       |
|  |              | 124,727 56   |                       |
| Inspection of castings                                     |              | 7,821 70     |                       |
| Yards  |              | 95,094 56    |                       |
| Damages  |              | 22,038 13    |                       |
| Shops  |              | 26,000 21    |                       |
| Stables  |              | 6,524 65     |                       |
| Tools and repairs  |              | 15,018 51    |                       |
| Main pipe relocation                                       |              | 15,737 14    |                       |
| Maine pipe repairs   |              | 88,509 88    |                       |
| Service pipes, new   |              | 114,176 53   |                       |
| Service pipes, changes                                     |              | 14,023 87    |                       |
| Service pipes, repairs                                     |              | 128,279 06   |                       |
| Hydrant, changes   |              | 34,296 77    |                       |
| Hydrant, repairs   |              | 70,106 85    |                       |
| Water posts, changes                                       |              | 320 97       |                       |
| Water posts, repairs                                       |              | 963 50       |                       |
| Fountains, new   |              | 256 57       |                       |
| Fountains, changes   |              | 540 73       |                       |
| Fountains, repairs   |              | 2,584 37     |                       |
| Fountains, on account of ice                               |              | 1,784 40     |                       |
| Holiday  |              | 61,957 54    |                       |
| Investigations   |              | 1,481 20     |                       |
| Off and on water   |              | 19,819 36    |                       |
| Accommodation work   |              | 4,254 18     |                       |
| Work on account of office and engineer's branch            |              | 2,910 01     |                       |
| Work on account of Income Branch                           |              | 783 18       |                       |
| Work on account of new meters                              |              | 4,351 37     |                       |
| Work on account of meter repairs                           |              | 11,128 29    |                       |
| Work on account of Meter Branch                            |              | 1,419 26     |                       |
| Waste detection and prevention                             |              | 110 10       |                       |
| Launch, repairs and supplies                               |              | 1,088 30     |                       |
| Harbor Service   |              | 3,769 03     |                       |
| Veterans' pensions   |              | 6,633 41     |                       |
| Laborers' pensions   |              | 8,644 20     |                       |
| Laborers' vacations  |              | 21,282 86    |                       |
| Workmen's Compensation                                     |              | 4,477 05     |                       |
| Emergency service  |              | 67,898 77    |                       |
| Garage   |              | 6,763 09     |                       |
| Medical inspection   |              | 600 00       |                       |
| Light and power  |              | 1,721 17     |                       |
| High Pressure Fire Service                                 |              | 3,136 20     |                       |
| Veterinary's services                                      |              | 125 00       |                       |
| Regulating boxes   |              | 6,357 26     |                       |
| Expert services  |              | 1,106 90     |                       |
| Taxes  |              | 280 05       |                       |
| Delivering water   |              | 9 95         |                       |
| Automobiles  |              | 50,403 49    |                       |
| Total maintenance  |              |              | 1,320,200 27          |
| Merchandise sold and stock consigned to junk               |              |              | 6,135 34              |
| Stock purchased  |              |              | 320,774 70            |
|  |              |              | \$1,871,042 43        |
| Less stock used and disposed of                            |              |              | 388,024 20            |
| Total expenditures from appropriation for current expenses |              |              | <u>\$1,483,018 23</u> |

# Receipts and Expenditures, 1918-1927.

## Receipts.

|   | 1918-19.       | 1919-20.       | 1920-21.       | 1921-22.       | 1922-23.       | 1923-24.       | 1924-25.       | 1925.<br>(11 months.) | 1926.          | 1927.          |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|
| Sales of water.....   | \$2,998,922 73 | \$3,244,542 57 | \$3,364,937 04 | \$3,407,579 24 | \$3,694,448 30 | \$3,813,571 42 | \$3,748,575 28 | \$3,079,830 74        | \$3,790,408 27 | \$3,913,117 06 |
| Other receipts.....   | 50,529 81      | 54,111 33      | 64,598 71      | 65,479 69      | 97,499 70      | 97,164 30      | 182,317 83     | 161,277 84            | 210,580 90     | 167,655 59     |
|   | \$3,049,452 54 | \$3,298,653 90 | \$3,429,535 75 | \$3,473,058 93 | \$3,791,948 00 | \$3,910,735 72 | \$3,930,893 11 | \$3,241,108 58        | \$4,000,989 17 | \$4,080,772 65 |
| Loan, extension of water mains.....                                       |                |                |                |                |                |                |                | 800,000 00            | 300,000 00     | 200,000 00     |
| Loan, laying and relaying street water mains.....                         |                |                |                |                |                |                |                | 100,000 00            |                |                |
|   | \$3,049,452 45 | \$3,298,653 90 | \$3,429,535 75 | \$3,473,058 93 | \$3,791,948 00 | \$3,910,735 72 | \$3,930,893 11 | \$4,141,108 58        | \$4,300,989 17 | \$4,280,772 65 |
| Balance, beginning of year.....   | \$25,087 31    | * \$3,487 83   |                |                | * \$43,733 95  | * \$200,000 00 | \$24,141 18    | \$26,737 35           | \$375,840 01   | \$294,170 57   |
| Balance, end of year.....   | * 3,487 83     |                |                | \$43,733 95    |                | 24,141 18      | 26,737 35      | † 375,840 01          | † 294,170 57   | 246,022 89     |
| Transferred to Collecting Department.....                                 | 26,165 88      | 30,317 74      | \$33,570 54    | 34,596 76      | 46,425 42      | 50,522 49      | 58,653 86      | 51,890 79             | 55,622 61      | 53,356 03      |
| Transferred to city loan account.....                                     | 124,263 90     | 390,095 22     | 209,958 26     | 161,000 00     | 250,233 01     | 113,570 40     | 16,000 00      | 10,000 00             | 16,000 00      | 16,000 00      |
| Transferred to appropriation for service mains and relaying mains.....    | 30,000 00      |                |                |                | 200,000 00     | 208,180 00     | 217,638 84     | 50,123 45             | 90,000 00      | 90,000 00      |
| Transferred to appropriation for High Pressure Fire Service.....          |                |                |                |                | 23,000 00      |                |                |                       |                |                |
| Transferred to appropriation for High Pressure Fire system extension..... |                |                |                |                | 100,000 00     | 410,000 00     | 175,000 00     |                       |                |                |

## Expenditures.

|   | 1918-19.       | 1919-20.       | 1920-21.       | 1921-22.       | 1922-23.       | 1923-24.       | 1924-25.       | 1925.<br>(11 months.) | 1926.          | 1927.          |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|
| Current expenses.....                             | \$1,055,842 87 | \$1,010,634 32 | \$1,253,166 33 | \$1,232,418 76 | \$1,396,212 50 | \$1,229,573 73 | \$1,608,320 10 | \$1,309,163 72        | \$1,511,407 58 | \$1,483,008 23 |
| Service mains and relaying mains.....             | 51,599 48      | 3,487 83       |                |                |                | 384,038 82     | 215,042 67     | 75,930 69             | 83,065 12      | 71,593 99      |
| Metropolitan water assessment.....                | 1,741,008 84   | 1,805,104 07   | 1,885,924 91   | 1,958,528 33   | 1,784,257 21   | 1,872,413 17   | 1,829,973 63   | 1,793,425 93          | 2,090,598 07   | 2,155,188 41   |
| Interest.....                                     | 71,268 00      | 61,162 73      | 45,874 33      | 41,852 66      | 34,449 49      | 25,534 00      | 24,680 00      | 9,800 00              | 45,280 00      | 52,940 00      |
| Refunded water rates.....                         | 962 99         | 1,339 82       | 1,041 38       | 928 47         | 1,104 32       | 941 93         | 626 68         | 527 48                | 343 50         | 1,052 80       |
| Loan, extension of water mains.....               |                |                |                |                |                |                |                | 515,178 10            | 346,255 78     | 282,524 21     |
| Loan, laying and relaying street water mains..... |                |                |                |                |                |                |                | 26,089 21             | 54,085 95      | 13,244 66      |
| On account of serial loans.....                   |                |                |                |                |                |                |                |                       | 180,000 00     | 200,000 00     |
|   | \$2,929,682 18 | \$2,881,728 77 | \$3,186,006 95 | \$3,233,728 22 | \$3,216,023 52 | \$3,512,501 65 | \$3,678,643 08 | \$3,730,115 13        | \$4,311,036 00 | \$4,259,564 30 |

\* Balance of appropriation for service mains and relaying mains.  
† \$57,131.80 of this amount is balance of appropriation for "Water Service"; \$26,269 of this amount is balance of appropriation for "Service Mains and Relaying Mains Revenue"; \$156,641.91 of this amount is balance of appropriation for "Extension of Water Mains (Loan)"; \$6,680.18 of this amount is balance of appropriation for "Laying and Relaying Street Water Mains (Loan)."  
‡ Amount expended for current expenses and extensions, there being one appropriation only.



### Details of expenditures under appropriation for Service Mains and Relaying Mains for the fiscal year 1927.

| EXTENSION.   |             |                    |
|--|-------------|--------------------|
| Construction of new mains  | \$37,377 98 |                    |
| Replacement of old mains   | 22,486 50   |                    |
| Total extension  |             | \$59,864 48        |
| MAINTENANCE.   |             |                    |
| Main pipe, relocation  | \$314 52    |                    |
| Main pipe, repairs   | 599 29      |                    |
| Service pipes, new   | 9,732 90    |                    |
| Service pipes, changes   | 42 50       |                    |
| Service pipes, repairs   | 950 38      |                    |
| Hydrant repairs  | 51 96       |                    |
| Off and on water   | 39 96       |                    |
| Total maintenance  |             | 11,731 51          |
| Total expenditures from appropriation for Service Mains and Relaying Mains |             | <u>\$71,595 99</u> |

### Details of expenditures under appropriation for Extension of Water Mains for the fiscal year 1927. (From loan.)

|  |              |                     |
|--|--------------|---------------------|
| Construction of new mains  | \$285,616 46 |                     |
| Service pipes, new   | 3,071 27     |                     |
| Stock purchased  | 72,308 72    |                     |
|  | \$360,996 45 |                     |
| Less stock used and debit transfer from 1926,                      | 72,472 24    |                     |
| Total expenditures from appropriation for Extension of Water Mains |              | <u>\$282,524 21</u> |

### Details of expenditures under appropriation for Laying and Relaying Street Water Mains for the year 1927. (From loan.)

|                                      |             |                    |
|--------------------------------------|-------------|--------------------|
| Construction of new mains            | \$11,538 69 |                    |
| Replacement of old mains             | 1,058 29    |                    |
| Service pipes, new                   | 647 68      |                    |
| Total expenditures for the year 1927 |             | <u>\$13,244 66</u> |

### APPROPRIATION FOR DOCK SQUARE AND FANEUIL HALL SQUARE IMPROVEMENT.

|  |                   |
|--|-------------------|
| Laying and relaying water mains on account of street widenings | <u>\$1,972 57</u> |
|--|-------------------|

### APPROPRIATION FOR KNEELAND STREET IMPROVEMENT.

|   |                   |
|---|-------------------|
| Laying and relaying water mains on account of street widening | <u>\$2,751 45</u> |
|---|-------------------|

### RESERVE FUND.

|  |                   |
|--|-------------------|
| Expenditures for ice furnished at drinking fountains | <u>\$4,602 14</u> |
|--|-------------------|

## COST OF CONSTRUCTION AND CONDITION OF WATER DEBT.

|   |                        |
|---|------------------------|
| Cost of construction to December 31, 1927 . . . . .                   | \$21,290,135 91        |
| Cost of construction to December 31, 1926 . . . . .                   | 20,710,570 44          |
| Increase during the year . . . . .                                    | <u>\$579,565 47</u>    |
| Outstanding loans December 31, 1926 . . . . .                         | \$1,244,000 00         |
| Outstanding loans December 31, 1927 . . . . .                         | 1,228,000 00           |
| Decrease during the year . . . . .                                    | <u>\$16,000 00</u>     |
| Cost of existing works December 31, 1927:                             |                        |
| Pipe, yards and buildings . . . . .                                   | \$94,832 16            |
| Engineering expenses . . . . .  | 57,873 58              |
| Distribution system (additions during<br>year \$579,565 47) . . . . . | * 20,669,430 17        |
| Hyde Park water works . . . . .                                       | 468,000 00             |
|   | <u>\$21,290,135 91</u> |
| High Pressure Fire System . . . . .                                   | <u>\$2,062,155 92</u>  |

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\* Includes \$85,121.50 High Pressure Fire Service Extension expended in 1925 and 1926.



## INCOME BRANCH.

Table No. 1.—Statement of Each Year's Water Rates, 1912 to 1927,  
as of December 31, 1927.

| YEAR.     | Assessments.   | Abatements. | Collections.   | Outstanding. |
|-----------|----------------|-------------|----------------|--------------|
| 1912..... | \$3,001,771 87 | \$49,937 87 | \$2,943,402 48 | \$8,431 52   |
| 1913..... | 3,004,331 52   | 42,088 77   | 2,954,183 62   | 8,059 13     |
| 1914..... | 3,034,885 83   | 41,544 93   | 2,970,232 82   | 23,108 08    |
| 1915..... | 2,960,797 45   | 15,084 24   | 2,903,015 36   | 42,697 85    |
| 1916..... | 3,130,590 53   | 16,402 64   | 3,062,818 84   | 51,369 05    |
| 1917..... | 3,120,878 86   | 19,287 29   | 3,043,525 11   | 58,066 46    |
| 1918..... | 3,359,714 95   | 98,624 99   | 3,197,299 43   | 63,790 53    |
| 1919..... | 3,210,147 91   | 27,111 37   | 3,114,335 15   | 68,701 39    |
| 1920..... | 3,503,677 88   | 62,017 25   | 3,380,167 98   | 61,492 65    |
| 1921..... | 3,615,663 51   | 34,119 41   | 3,524,717 28   | 56,826 82    |
| 1922..... | 3,612,715 51   | 31,450 66   | 3,522,028 49   | 59,236 36    |
| 1923..... | 3,817,084 26   | 35,464 15   | 3,739,213 26   | 42,406 85    |
| 1924..... | 3,832,531 26   | 41,329 11   | 3,780,382 74   | 10,819 41    |
| 1925..... | 3,875,434 21   | 37,420 53   | 3,821,732 36   | 16,281 32    |
| 1926..... | 3,910,049 04   | 38,107 67   | 3,835,721 48   | 36,219 89    |
| 1927..... | 3,974,211 79   | 17,983 32   | 2,849,162 80   | 1,107,065 67 |

Table No. 2.—Elevator, Motor and Fire Services.

|   |       |
|---|-------|
| Elevator services installed.....                                | —     |
| Elevator services abandoned.....                                | —     |
| Total number of elevator services in use December 31, 1927..... | 505   |
| Fire pipes installed.....                                       | 118   |
| Fire pipes abandoned.....                                       | 2     |
| Total number of fire services in use December 31, 1927.....     | 2,955 |
| Number of motor services in use December 31, 1927.....          | 96    |
| Number of motor services metered.....                           | 20    |

## METER BRANCH.

Table No. 1.—Statement of Work During Year 1927.

| MAKE.                      | New Sets. | Discontinued. | CHANGES. |       | Tested. | Repaired in Shop. | Resets. | Repaired in Service. |
|----------------------------|-----------|---------------|----------|-------|---------|-------------------|---------|----------------------|
|                            |           |               | Out.     | In.   |         |                   |         |                      |
| Worthington disc . . . . . | 25        | 63            | 1,490    | 901   | 4,068   | 992               | 47      | 76                   |
| Watch dog . . . . .        | 2,270     | 133           | 1,163    | 2,867 | 4,729   | 1,343             | 167     | 776                  |
| King . . . . .             | 49        | 83            | 1,793    | 1,872 | 3,718   | 2,052             | 74      | 574                  |
| Hersey disc . . . . .      | 84        | 281           | 3,641    | 2,907 | 7,647   | 3,296             | 111     | 707                  |
| Hersey rotary . . . . .    | 9         | 8             | 121      | 34    | 259     | 58                | .....   | 8                    |
| Crown . . . . .            | 5         | 20            | 135      | 20    | 295     | 17                | 1       | 7                    |
| Nash . . . . .             | 4         | 5             | 73       | 36    | 255     | 44                | .....   | 15                   |
| Lambert . . . . .          | 7         | 4             | 46       | 29    | 103     | 54                | 1       |                      |
| Keystone . . . . .         |           | 2             | 23       | 20    | 48      | 20                | 2       |                      |
| Trident . . . . .          |           | 2             | 26       | 15    | 54      | 29                | 3       | 21                   |
| Hersey compound . . . . .  |           |               | 2        | 2     | .....   | .....             | .....   | 7                    |
| Hersey detector . . . . .  | 6         | 1             | 5        | 6     | .....   | .....             | .....   | 9                    |
| American . . . . .         | 1         | 8             | 184      | 44    | 377     | 184               | 6       | 100                  |
| Federal . . . . .          | 1         | 5             | 82       | 31    | 170     | 27                | 1       | 19                   |
| Totals . . . . .           | 2,461     | 615           | 8,784    | 8,784 | 21,723  | 8,118             | 413     | 2,319                |

Table No. 2.

*Meters in Service December 31, 1927.*

| MAKE.                 | DIAMETER IN INCHES. |               |       |                |     |     |     |    |    |    |    |         |
|-----------------------|---------------------|---------------|-------|----------------|-----|-----|-----|----|----|----|----|---------|
|                       | $\frac{5}{8}$       | $\frac{3}{4}$ | 1     | $1\frac{1}{2}$ | 2   | 3   | 4   | 6  | 8  | 10 | 12 | Totals. |
| Hersey disc .....     | 42,229              | 3,141         | 1,395 | 710            | 278 | 95  | 66  | 5  |    |    |    | 47,919  |
| Worth disc .....      | 8,764               | 38            | 12    | 38             | 68  | 58  |     |    |    |    |    | 8,978   |
| Watch dog .....       | 17,720              | 553           | 723   | 407            | 245 | 118 | 30  |    |    |    |    | 19,796  |
| King .....            | 10,510              | 393           | 81    | 63             | 57  |     |     |    |    |    |    | 11,104  |
| Hersey rotary .....   | 317                 | 274           | 172   | 137            | 158 | 53  | 22  | 15 |    |    |    | 1,148   |
| Crown .....           | 336                 | 425           | 178   | 127            | 137 | 40  | 37  | 8  |    |    |    | 1,288   |
| Nash .....            | 330                 | 36            | 94    | 12             | 2   | 2   |     |    |    |    |    | 476     |
| Lambert .....         | 270                 | 95            | 76    | 17             | 15  |     | 4   |    |    |    |    | 477     |
| Trident .....         | 159                 | 3             | 3     | 4              | 4   | 14  | 5   | 2  |    |    |    | 194     |
| Hersey detector ..... |                     |               |       |                |     | 5   | 23  | 33 | 13 | 18 | 4  | 96      |
| Old Worthington ..... |                     | 8             | 25    | 1              | 8   | 11  | 1   |    |    |    |    | 54      |
| Keystone .....        | 169                 | 170           | 23    | 1              | 1   | 6   |     |    |    |    |    | 370     |
| Metropolitan .....    |                     | 12            | 1     |                |     |     |     |    |    |    |    | 13      |
| American .....        | 80                  | 454           |       |                |     |     |     |    |    |    |    | 534     |
| Empire .....          | 105                 |               |       |                |     |     |     |    |    |    |    | 105     |
| Protectus .....       |                     |               |       |                |     | 2   | 1   | 2  | 2  |    |    | 7       |
| Gem .....             |                     |               |       |                | 1   |     |     | 2  |    |    |    | 3       |
| Standard .....        | 4                   |               |       |                |     |     |     |    |    |    |    | 4       |
| Thomson .....         | 6                   | 2             |       |                |     |     |     |    |    |    |    | 8       |
| Hersey compound ..... |                     |               |       |                |     |     | 3   | 7  |    |    |    | 10      |
| Federal .....         | 1,273               |               |       |                |     |     |     |    |    |    |    | 1,273   |
| Totals .....          | 82,272              | 5,604         | 2,783 | 1,517          | 974 | 402 | 193 | 73 | 15 | 20 | 4  | 93,857  |

Table No. 1.

Showing Length of Water Pipes and Connections Owned and Operated by the Public Works Department, Water Division (Water Service) and Number of Valves in same December 31, 1927.

| DIAMETER OF PIPES IN INCHES.                        |        |        |        |        |        |        |        |         |       |           |         |         |           |        |       |       | Totals.   |
|---|--------|--------|--------|--------|--------|--------|--------|---------|-------|-----------|---------|---------|-----------|--------|-------|-------|-----------|
| 48  | 42     | 40     | 36     | 30     | 24     | 20     | 16     | 14      | 12    | 10        | 8       | 6       | 4         | 3      | 2     |       |           |
| Length owned and operated<br>December 31, 1926..... | 17,798 | 15,980 | 16,081 | 43,644 | 91,819 | 81,414 | 86,520 | 288,120 | 5,041 | 1,005,097 | 444,538 | 955,231 | 1,128,826 | 85,357 | 9,442 | 6,773 | 4,881,681 |
| Gate valves in same.....                            | 16     | 4      | 9      | 20     | 57     | 76     | 72     | 655     | 19    | 4,233     | 1,485   | 3,249   | 3,599     | 569    | 16    | 17    | 14,096    |
| Air valves in same.....                             | 28     | 5      | 9      | 34     | 108    | 75     | 43     | 75      | ..... | 48        | 1       | 3       | 1         | .....  | 1     | ..... | 431       |
| Blow-offs in same.....                              | 3      | 4      | 3      | 11     | 34     | 28     | 46     | 66      | ..... | 104       | 44      | 122     | 129       | 58     | 7     | 2     | 721       |
| Length laid and relaid dur-<br>ing 1927.....        | 2,275  | .....  | .....  | 136    | .....  | 3,784  | 841    | 2,702   | ..... | 31,911    | 2,023   | 31,393  | 1,317     | 9      | ..... | 126   | 76,517    |
| Gate valves in same.....                            | 1      | .....  | .....  | 1      | .....  | 2      | 1      | 15      | ..... | 108       | 15      | 152     | 10        | 3      | ..... | ..... | 307       |
| Air valves in same.....                             | 5      | .....  | .....  | 1      | .....  | 3      | .....  | .....   | ..... | 1         | .....   | .....   | .....     | .....  | ..... | ..... | 11        |
| Blow-offs in same.....                              | 2      | .....  | .....  | .....  | .....  | 2      | .....  | 2       | ..... | 6         | .....   | 12      | 5         | .....  | ..... | ..... | 29        |
| Length abandoned during<br>1927.....                | .....  | .....  | .....  | .....  | 1,420  | 762    | 620    | 26      | ..... | 7,514     | 171     | 1,744   | 6,417     | 2,030  | ..... | 230   | 20,934    |
| Gate valves in same.....                            | .....  | .....  | .....  | .....  | 1      | .....  | .....  | .....   | ..... | 14        | 2       | 7       | 58        | 5      | ..... | ..... | 67        |
| Blow-offs in same.....                              | .....  | .....  | .....  | .....  | 1      | .....  | .....  | 1       | ..... | 8         | 2       | 7       | 3         | .....  | ..... | ..... | 22        |
| Air valves in same.....                             | .....  | .....  | .....  | 1      | 2      | .....  | 1      | .....   | ..... | .....     | .....   | .....   | .....     | .....  | ..... | ..... | 4         |
| Length owned and operated<br>December 31, 1927..... | 20,073 | 15,980 | 16,081 | 43,780 | 90,399 | 84,436 | 86,741 | 290,796 | 5,041 | 1,629,494 | 446,390 | 981,880 | 1,123,726 | 83,336 | 9,442 | 6,669 | 4,937,264 |
| Gate valves in same.....                            | 17     | 4      | 9      | 20     | 56     | 78     | 73     | 670     | 19    | 4,327     | 1,498   | 3,394   | 3,571     | 567    | 16    | 17    | 14,336    |
| Air valves in same.....                             | 33     | 5      | 9      | 34     | 107    | 78     | 42     | 75      | ..... | 49        | 1       | 3       | 1         | .....  | 1     | ..... | 438       |
| Blow-offs in same.....                              | 5      | 4      | 3      | 11     | 33     | 30     | 46     | 67      | ..... | 162       | 42      | 127     | 131       | 58     | 7     | 2     | 728       |
| Total 935.09 miles in system.                       |        |        |        |        |        |        |        |         |       |           |         |         |           |        |       |       |           |

Table No. II.

*Total Number of Hydrants in System December 31, 1927.*

|  | Lowry. | Boston Lowry. | Boston Post. | Ordinary Post. | Bacheelder and Finneran Post. | Ludlow Post. | Chapman Post. | Coffin Post. | Matthews Post. | Boston. | Totals. |
|--|--------|---------------|--------------|----------------|-------------------------------|--------------|---------------|--------------|----------------|---------|---------|
| City proper (public).....                | 470    | 36            | 500          | 251            | 207                           | .....        | .....         | .....        | .....          | 53      | 1,517   |
| "    (private).....                      | 4      | .....         | 9            | 6              | .....                         | .....        | .....         | .....        | .....          | 39      | 58      |
| Roxbury (public).....                    | 255    | 52            | 427          | 322            | 460                           | .....        | .....         | .....        | .....          | 13      | 1,529   |
| "    (private).....                      | 2      | 1             | 3            | 4              | .....                         | .....        | .....         | .....        | .....          | 10      | 20      |
| West Roxbury (public).....               | 21     | 152           | 492          | 986            | 330                           | .....        | .....         | .....        | .....          | 13      | 1,994   |
| "    (private).....                      | .....  | .....         | .....        | 15             | 1                             | .....        | .....         | .....        | .....          | 1       | 17      |
| Brighton (public).....                   | 19     | 41            | 275          | 513            | 140                           | .....        | .....         | .....        | .....          | 12      | 1,000   |
| "    (private).....                      | .....  | .....         | .....        | 8              | .....                         | .....        | .....         | .....        | .....          | 2       | 10      |
| Dorchester (public).....                 | 190    | 123           | 683          | 1,151          | 292                           | .....        | .....         | .....        | .....          | 17      | 2,456   |
| "    (private).....                      | .....  | 1             | 8            | .....          | 2                             | .....        | .....         | .....        | .....          | 4       | 15      |
| South Boston (public).....               | 106    | 19            | 251          | 184            | 89                            | .....        | .....         | .....        | .....          | 14      | 663     |
| "    (private).....                      | 3      | 1             | .....        | 15             | .....                         | .....        | .....         | .....        | .....          | 27      | 46      |
| East Boston (public).....                | 25     | 15            | 207          | 229            | 54                            | .....        | .....         | .....        | .....          | 6       | 536     |
| "    (private).....                      | 8      | 1             | .....        | 9              | .....                         | .....        | .....         | .....        | .....          | 25      | 43      |
| Charlestown (public).....                | 76     | 34            | 141          | 65             | 29                            | .....        | .....         | .....        | .....          | 2       | 347     |
| "    (private).....                      | 13     | 1             | .....        | 37             | .....                         | .....        | .....         | .....        | .....          | 5       | 56      |
| Hyde Park (public).....                  | .....  | .....         | 19           | 332            | 84                            | 7            | 116           | 1            | .....          | .....   | 559     |
| "    (private).....                      | .....  | .....         | .....        | .....          | .....                         | 13           | 55            | .....        | 4              | .....   | 72      |
| Deer Island (private).....               | .....  | .....         | 1            | 19             | .....                         | .....        | .....         | .....        | .....          | .....   | 20      |
| Long Island (private).....               | .....  | .....         | .....        | 6              | .....                         | .....        | .....         | .....        | .....          | .....   | 6       |
| Thompson's Island (private).....         | .....  | .....         | .....        | 2              | .....                         | .....        | .....         | .....        | .....          | .....   | 2       |
| Gallup's Island (private).....           | .....  | .....         | .....        | 3              | .....                         | .....        | .....         | .....        | .....          | 1       | 4       |
| Rainsford Island (private).....          | .....  | .....         | .....        | 3              | .....                         | .....        | .....         | .....        | .....          | .....   | 3       |
| Quincy.....                              | .....  | .....         | .....        | 9              | .....                         | .....        | .....         | .....        | .....          | .....   | 9       |
| Total number (public).....               | 1,162  | 472           | 2,995        | 4,033          | 1,685                         | 7            | 116           | 1            | .....          | 130     | 10,601  |
| Total number (private and suburban)..... | 30     | 5             | 21           | 136            | 3                             | 13           | 55            | .....        | 4              | 114     | 381     |

*Total Number and Aggregate Length of Service Pipes of Various Sizes  
Connected with System December 31, 1927.*

| Size.                      | Total Number. | Aggregate Length<br>in Linear Feet. |
|----------------------------|---------------|-------------------------------------|
| $\frac{1}{2}$ -inch.....   | 6,897         | 158,251                             |
| $\frac{5}{8}$ -inch.....   | 91,899        | 2,530,904                           |
| $\frac{3}{4}$ -inch.....   | 3,600         | 124,182                             |
| 1-inch.....                | 5,774         | 204,943                             |
| 1 $\frac{1}{4}$ -inch..... | 632           | 18,057                              |
| 1 $\frac{1}{2}$ -inch..... | 1,834         | 54,356                              |
| 2-inch.....                | 2,376         | 71,762                              |
| 2 $\frac{1}{2}$ -inch..... | 12            | 267                                 |
| 3-inch.....                | 1,057         | 29,300                              |
| 4-inch.....                | 3,505         | 91,430                              |
| 6-inch.....                | 225           | 24,275                              |
| 8-inch.....                | 72            | 4,596                               |
| 10-inch.....               | 15            | 1,771                               |
| 12-inch.....               | 20            | 4,005                               |
| 16-inch.....               | 5             | 448                                 |
| Totals.....                | * 117,923     | 3,318,547                           |

\* The completion of the metering of all services to within 1 per cent of the total number of live service pipes discloses the fact that the total number of service pipes will not exceed 95,000. The large discrepancy is found to be due to the fact that previous to 1880 no deductions were made for pipes abandoned, etc.

# Cost of Extension of Main Pipe.

| STREET.                | Location.                                 | District.     | Size<br>(Inch.) | Feet. | Cost of<br>Depart-<br>ment-<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Remarks.                    |
|------------------------|---|---------------|-----------------|-------|---|-------------------|------------------------|----------------|-----------------------------|
| Bills court.....       | From Ruggles street.....                  | Roxbury.      | 2               | 170   | \$274 99  | \$200 77          | .....                  | \$475 76       | Private work.               |
| Huntington avenue..... | Muddy river.....                          | Roxbury.      | 6               | 47    | \$241 89  | \$303 94          | .....                  | \$545 83       | Private work.               |
| Zanora court.....      | Zanora street.....                        | Roxbury.      | 6               | 185   | 213 17  | 218 21            | \$6 11                 | 467 49         | Private, gravel.            |
| Summer terrace.....    | Summer street.....                        | Dorchester.   | 6               | 183   | 302 15  | 213 93            | 9 59                   | 525 67         | Public, under construction. |
| Cornell street.....    | Bellevue street.....                      | Dorchester.   | 6               | 193   | 300 99  | 284 40            | 21 04                  | 606 43         | Private, gravel and rock.   |
| Francis park.....      | Savin Hill avenue.....                    | Dorchester.   | 6               | 200   | 321 60  | 321 00            | 40 74                  | 683 34         | Private, rock.              |
| Proposed street.....   | Stratford street near Woodward<br>avenue. | West Roxbury. | 6               | 20    | 88 87   | 20 00             | 3 20                   | 112 07         | Private, clay.              |
| Goldsmith street.....  | St. Joseph street.....                    | West Roxbury. | 6               | 65    | 142 03  | 61 60             | 8 25                   | 211 88         | Private, sand.              |
| Wilson park.....       | Commonwealth avenue.....                  | Brighton.     | 6               | 379   | 613 29  | 376 20            | 40 26                  | 1,039 75       | Private work.               |
|                        | Totals.....                               | .....         | 6               | 1,272 | \$2,283 99  | \$1,799 28        | \$129 19               | \$4,212 46     |                             |
| Merchants row.....     | South Market and Chatham streets.         | City Proper.  | 8               | 116   | \$241 73  | \$190 00          | \$32 55                | \$464 28       | Public, ash filled.         |
| Hardy street.....      | Marine road and East Eighth street.       | South Boston. | 8               | 301   | 567 58  | 365 77            | 10 18                  | 943 53         | Private, gravel.            |
| Elkins street.....     | Between K and L streets.....              | South Boston. | 8               | 279   | 458 40  | 327 20            | 76 19                  | 861 79         | Private, gravel.            |
| Wesley street.....     | Preble and Hyde streets.....              | South Boston. | 8               | 269   | 660 30  | 292 03            | 22 37                  | 974 70         | Private, gravel.            |
| Ashley street.....     | Breed street.....                         | East Boston.  | 8               | 48    | 67 27   | 52 32             | 2 72                   | 122 31         | Private, clay.              |
| Sea View avenue.....   | Orient avenue and Tower street....        | East Boston.  | 8               | 421   | 792 73  | 518 58            | 34 62                  | 1,345 93       | Private, gravel.            |
|                        | Carried forward .....                     | .....         |                 | 1,434 | \$2,788 01  | \$1,745 90        | \$178 63               | \$4,712 54     |                             |



# Cost of Extension of Main Pipe.—Continued.

| STREET.               | Location.                            | District.   | Size<br>(Inch.) | Feet. | Cost of<br>Depart-<br>ment<br>Material,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Remarks.                |
|-----------------------|--------------------------------------|-------------|-----------------|-------|---|-------------------|------------------------|----------------|-------------------------|
|                       | <i>Brought forward.</i>              |             |                 | 1,434 | \$2,788 01                                      | \$1,745 90        | \$178 63               | \$4,712 54     |                         |
| Elbert street.        | Humboldt avenue.                     | Roxbury.    | 8               | 273   | 641 96  | 1,185 50          | 135 75                 | 1,963 21       | Private, macadam.       |
| Ashton street.        | Balsam street.                       | Dorchester. | 8               | 151   | 315 54  | 212 84            | 44 00                  | 572 38         | Private, ash.           |
| Stone terrace.        | Southern Artery.                     | Dorchester. | 8               | 108   | 153 59  | 135 00            | 8 63                   | 297 22         | Private, clay.          |
| Pleasant View street. | Ashland street and Roanoke road.     | Dorchester. | 8               | 98    | 237 44  | 184 14            | 206 38                 | 627 96         | Private, rock and clay. |
| Cedar Grove street.   | Hallet-Davis and Whitridge streets.  | Dorchester. | 8               | 223   | 497 05  | 241 85            | 5 75                   | 744 65         | Private, gravel.        |
| Byers road.           | Ormond street.                       | Dorchester. | 8               | 13    | 43 05   | 14 00             | 80                     | 57 85          | Private, clay.          |
| Owencroft street.     | Southern Artery.                     | Dorchester. | 8               | 635   | 1,251 29  | 664 44            | 24 28                  | 1,940 01       | Private, filled.        |
| Rich street.          | West Selden and Delhi streets.       | Dorchester. | 8               | 253   | 508 41  | 358 36            | 20 13                  | 886 90         | Private, clay.          |
| Delhi street.         | Rich and Woodlawn streets.           | Dorchester. | 8               | 120   | 391 52  | 176 68            | 9 35                   | 577 55         | Private, clay.          |
| Ginita street.        | Centre street.                       | Dorchester. | 8               | 194   | 403 83  | 224 70            | 5 43                   | 633 96         | Private, gravel.        |
| Rangeley street.      | Milton street.                       | Dorchester. | 8               | 354   | 613 67  | 383 67            | 8 15                   | 1,005 49       | Private, gravel.        |
| Gene street.          | Humphreys and Holden streets.        | Dorchester. | 8               | 369   | 651 81  | 413 16            | 22 40                  | 1,087 37       | Private, ash filled.    |
| Hosmer street.        | Blue Hill avenue and Norfolk street. | Dorchester. | 8               | 440   | 867 16  | 805 67            | .....                  | 1,672 83       | Private, ledge.         |
| Glide street.         | Minot street and Oak avenue.         | Dorchester. | 8               | 540   | 957 55  | 576 54            | 32 58                  | 1,566 67       | Public, gravel.         |
| Emerson avenue.       | Southern Artery.                     | Dorchester. | 8               | 301   | 702 41  | 1,010 41          | 19 94                  | 1,732 76       | Private, clay and rock. |
| Dyer avenue.          | Blue Hill avenue.                    | Dorchester. | 8               | 324   | 553 94  | 315 93            | 21 90                  | 891 77         | Private land.           |
| Newkirk street.       | Neponset avenue and Manley street.   | Dorchester. | 8               | 236   | 664 55  | 299 84            | 21 72                  | 986 11         | Private, gravel.        |



**Cost of Extension of Main Pipe.—Continued.**

| STREET.                  | Location.                              | District.     | Size.<br>(Inch.) | Feet. | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspe-<br>tion. | Total<br>Cost. | Remarks.                |
|--------------------------|--|---------------|------------------|-------|--|-------------------|----------------------------|----------------|-------------------------|
|                          | <i>Brought forward</i> .....           |               |                  | 9,420 | \$20,698 87                                      | \$14,327 19       | \$1,195 99                 | \$36,222 05    |                         |
| Southern Artery.....     | Codman and Vera streets.....           | Dorchester.   | 8                | 460   | 731 97   | 390 93            | 30 35                      | 1,153 25       | Public, clay.           |
| Humes road.....          | Newhall avenue.....                    | Dorchester.   | 8                | 162   | 285 79   | 166 06            | 15 98                      | 467 83         | Private, filled.        |
| Grayson street.....      | Milton and Marsh streets.....          | Dorchester.   | 8                | 636   | 1,430 45   | 674 50            | 38 34                      | 2,143 29       | Private, gravel.        |
| Nevada street.....       | Codman and Codman Hill streets...      | Dorchester.   | 8                | 328   | 806 11   | 345 20            | 30 35                      | 1,181 66       | Private, clay.          |
| Reakton road.....        | Weld street and Willowdean road...     | West Roxbury. | 8                | 305   | 659 67   | 370 76            | 52 47                      | 1,082 90       | Private, clay.          |
| Sanborn avenue.....      | Tarleton road.....                     | West Roxbury. | 8                | 268   | 567 37   | 352 60            | 30 25                      | 950 22         | Private, clay.          |
| Knoll street.....        | Selwyn and Centre streets.....         | West Roxbury. | 8                | 145   | 413 87   | 208 67            | 35 75                      | 658 29         | Private, loam           |
| West Saville street..... | La Grange street.....                  | West Roxbury. | 8                | 207   | 528 38   | 242 05            | 12 14                      | 782 57         | Private, clay.          |
| Hodgdon terrace.....     | Midvale street.....                    | West Roxbury. | 8                | 140   | 304 89   | 221 93            | 12 14                      | 538 96         | Private, clay and rock. |
| Redgate road.....        | La Grange and Emmons streets.....      | West Roxbury. | 8                | 463   | 1,187 52   | 428 62            | 27 50                      | 1,643 64       | Private, clay.          |
| Pond circle.....         | Pond street.....                       | West Roxbury. | 8                | 325   | 746 18   | 558 15            | 57 50                      | 1,361 83       | Private, gravel.        |
| Spring road.....         | Slimson and Cottage roads.....         | West Roxbury. | 8                | 145   | 274 84   | 337 73            | 44 57                      | 657 14         | Private, clay and rock. |
| Cottage road.....        | Spring road.....                       | West Roxbury. | 8                | 32    | 76 25  | 52 30             | 26 60                      | 155 15         | Private, clay and rock. |
| Brook road.....          | Plainfield and Forest Hills streets... | West Roxbury. | 8                | 694   | 1,258 97   | 625 15            | 31 87                      | 1,915 99       | Private, street.        |
| Carroll street.....      | Vermont street.....                    | West Roxbury. | 8                | 183   | 395 57   | 192 22            | 25 24                      | 613 03         | Private, street.        |
| Knoll street.....        | Selwyn and Centre streets.....         | West Roxbury. | 8                | 226   | 452 21   | 216 18            | 24 60                      | 692 99         | Private, street.        |
| Greenhill avenue.....    | Malden road.....                       | West Roxbury. | 8                | 215   | 453 29   | 262 27            | 25 56                      | 741 12         | Private, street.        |
| Steadman street.....     | Rossmore road.....                     | West Roxbury. | 8                | 135   | 348 51   | 189 50            | 19 17                      | 557 18         | Private, street.        |
| Pond circle, West.....   | Pond street.....                       | West Roxbury. | 8                | 30    | 293 25   | .....             | .....                      | 293 25         | Public, gravel.         |

|                          |  |       |        |             |             |            |             |                             |
|--------------------------|--|-------|--------|-------------|-------------|------------|-------------|-----------------------------|
| St. Joseph street.....   | West Roxbury.                              | 8     | 550    | 1,069 07    | 595 21      | 13 75      | 1,678 03    | Public, under construction. |
| Arborway.....            | At St. Joseph street.....                  | 12    | 10     |             |             |            |             |                             |
| Forest Hills circle..... | Forest Hills place.....                    | 8     | 266    | 479 76      | 294 06      | 27 50      | 801 32      | Private, clay.              |
| Stella road.....         | Hammott road.....                          | 8     | 181    | 466 10      | 207 29      | 18 21      | 691 60      | Private, ashes.             |
| Alder street.....        | Rosindale avenue.....                      | 8     | 30     | 95 03       | 37 50       | 2 28       | 134 81      | Private, rocky.             |
| Rosindale avenue.....    | Walworth and Dudley streets.....           | 8     | 607    | 1,010 25    | 826 07      | 53 64      | 1,889 96    | Public, clay and rock.      |
| Alder street.....        | Walworth street.....                       | 8     | 60     | 147 06      | 82 86       | 4 55       | 234 47      | Private, clay and rock.     |
| Bullion road.....        | Gretter road.....                          | 8     | 492    | 836 43      | 857 23      | 60 38      | 1,754 04    | Private, sandy clay.        |
| Welles street.....       | Washington street.....                     | 8     | 38     | 161 89      | 41 80       | 11 50      | 215 19      | Private, clay.              |
| Cranston road.....       | Church street and Willowdean road,         | 8     | 545    | 878 63      | 870 35      | 138 72     | 1,887 70    | Private, sandy clay.        |
| Dana road.....           | Maple road.....                            | 8     | 287    | 590 39      | 382 75      | 18 21      | 991 35      | Private, rock and clay.     |
| New Park avenue.....     | Beech street and West Roxbury Parkway..... | 8     | 375    | 757 53      | 399 20      | 38 34      | 1,195 07    | Private, clay.              |
| Walnut road.....         | Dana and Chestnut roads.....               | 8     | 625    | 1,414 88    | 594 92      | 44 36      | 2,054 16    | Private.                    |
| Brook road.....          | Forest Hills street.....                   | 8     | 25     | 112 27      | 27 50       | 3 04       | 142 81      | Private, sandy.             |
| Rhoda street.....        | Central and Centre streets.....            | 8     | 150    | 360 51      | 172 60      | 15 17      | 548 28      | Private, clay.              |
| St. Peters street.....   | Boylston and Paul Gore streets.....        | 8     | 303    | 642 66      | 346 23      | 21 72      | 1,010 61    | Private, sandy.             |
| Parkvale road.....       | Weld street.....                           | 8     | 399    | 798 00      | 434 50      | 35 15      | 1,267 65    | Private, clay.              |
| Wolf street.....         | La Grange street.....                      | 8     | 377    | 746 41      | 392 00      | 19 17      | 1,157 58    | Private, clay.              |
| Chilton road.....        | Weld street.....                           | 8     | 307    | 666 13      | 353 98      | 12 78      | 1,032 89    | Private, clay.              |
| Walworth street.....     | Cedar and Washington streets.....          | 8     | 440    | 913 28      | 590 28      | 25 64      | 1,529 20    | Public, clay.               |
| Chestnut road.....       | Walnut road.....                           | 8     | 62     | 84 78       | 55 80       | 5 00       | 145 58      | Private work.               |
| Woodward road.....       | West Border road.....                      | 8     | 14     | 79 47       | 25 50       | 5 04       | 110 01      | Private work.               |
| Pond place.....          | Pond street.....                           | 8     | 243    | 606 67      | 279 62      | 11 38      | 897 67      | Private work.               |
|                          | Carried forward.....                       | ..... | 21,105 | \$44,831 16 | \$28,029 26 | \$2,321 90 | \$75,182 32 |                             |

# Cost of Extension of Main Pipe.—Continued.

| Street.                  | Location.                           | District.     | Size (Inch.) | Feet.  | Cost of Department Materials, etc. | Cost of Labor. | Cost of Inspection. | Total Cost. | Remarks.                  |
|--------------------------|-------------------------------------|---------------|--------------|--------|------------------------------------|----------------|---------------------|-------------|---------------------------|
|                          | <i>Brought forward</i> .....        |               |              | 21,105 | \$14,831 16                        | \$28,029 26    | \$2,321 90          | \$75,182 32 |                           |
| Cedar road.....          | Dana road.....                      | West Roxbury. | 8            | 192    | 559 14                             | 568 26         | 12 14               | 1,139 84    | Private, clay.            |
| Doncaster street.....    | Dale street.....                    | West Roxbury. | 8            | 197    | 471 46                             | 135 01         | 21 25               | 627 72      | Public, clay.             |
| Bobolink street.....     | Lagrange street.....                | West Roxbury. | 8            | 125    | 311 36                             | 123 76         | 19 73               | 454 85      | Private, sand.            |
| Conry circle.....        | Rockwood street.....                | West Roxbury. | 8            | 340    | 550 69                             | 926 22         | 134 19              | 1,611 10    | Private, rock and gravel. |
| Glade avenue.....        | At No. 19 and No. 21.....           | West Roxbury. | 8            | 15     | 279 01                             | 80 93          | 6 07                | 366 01      | Private, gravel.          |
| West Saville street..... | Lagrange street.....                | West Roxbury. | 8            | 61     | 83 45                              | 120 00         | 6 39                | 209 84      | Private, clay.            |
| Gretter road.....        | Parmenter road.....                 | West Roxbury. | 8            | 274    | 487 92                             | 327 72         | 31 95               | 847 59      | Private, clay.            |
| Hill street.....         | Cornell and Brooks streets.....     | West Roxbury. | 8            | 210    | 431 38                             | 281 23         | 19 17               | 731 78      | Private, rock and clay.   |
| Wolf street.....         | Lagrange street.....                | West Roxbury. | 8            | 134    | 240 74                             | 147 40         | 6 39                | 394 53      | Private, clay.            |
| Westover street.....     | Weld and Dunbar streets.....        | West Roxbury. | 8            | 679    | 1,246 23                           | 711 18         | 53 87               | 2,011 28    | Private, clay.            |
| Clarendon avenue.....    | Hillside avenue and Clarendon park, | West Roxbury. | 8            | 384    | 809 82                             | 286 70         | 27 75               | 1,124 27    | Private, clay.            |
| Glenside avenue.....     | Private land.....                   | West Roxbury. | 8            | 36     | 128 74                             | 34 58          | 6 07                | 169 39      | Private, clay.            |
| Nut street.....          | Glendale street North.....          | West Roxbury. | 8            | 86     | 173 64                             | 105 80         | 12 78               | 292 22      | Private, gravel.          |
| Private land.....        | Glade and Glenside avenues.....     | West Roxbury. | 8            | 171    | 168 60                             | 513 57         | 57 67               | 739 84      | Private land.             |
| Reservoir road.....      | Beacon street and railroad.....     | Brighton.     | 8            | 108    | 202 99                             | 213 00         | 19 17               | 435 16      | Public, clay.             |
| Dickinson road.....      | Washington street.....              | Brighton.     | 8            | 36     | 114 13                             | 84 00          | 19 17               | 217 30      | Private, clay.            |
| Dunklee road.....        | Harriet and Madeline streets.....   | Brighton.     | 8            | 476    | 906 74                             | 530 80         | 37 38               | 1,474 92    | Private, ashes.           |
| Gardner street.....      | Malvern and Babcock streets.....    | Brighton.     | 8            | 1,036  | 2,406 51                           | 943 18         | 66 85               | 3,476 54    | Private land.             |

|                        |                   |   |        |             |             |            |              |                         |
|------------------------|-------------------|---|--------|-------------|-------------|------------|--------------|-------------------------|
| Holton street.....     | Brighton.         | 8 | 188    | 492 53      | 316 50      | 33 30      | 842 42       | Private, gravel.        |
| Seven Pines.....       | Brighton.         | 8 | 38     | 133 07      | 31 15       | 5 75       | 169 97       | Private, sand.          |
| Coleran street.....    | Brighton.         | 8 | 27     | 119 92      | 23 45       | 5 75       | 149 12       | Private, sand.          |
| Durland street.....    | Brighton.         | 8 | 226    | 534 85      | 294 58      | 22 37      | 851 80       | Private, clay.          |
| Hopewell road.....     | Hyde Park.        | 8 | 353    | 670 69      | 352 50      | 68 29      | 1,091 48     | Private, gravel.        |
| Coleman street.....    | Hyde Park.        | 8 | 245    | 547 17      | 261 11      | 30 35      | 838 63       | Private, gravel.        |
| Jefferson street.....  | Hyde Park.        | 8 | 47     | 142 83      | 39 20       | 8 25       | 190 28       | Private, gravel.        |
| Pleasant street.....   | Hyde Park.        | 8 | 332    | 943 01      | 415 32      | 49 50      | 1,407 83     | Private, clay.          |
| Hyde Park avenue.....  | Hyde Park.        | 8 | 82     | 235 13      | 166 70      | 8 35       | 410 18       | Public, gravel.         |
| Reservoir street.....  | Hyde Park.        | 8 | 375    | 903 04      | 306 18      | 44 79      | 1,251 01     | Private, clay.          |
| Providence street..... | Hyde Park.        | 8 | 351    | 889 67      | 365 74      | 24 28      | 1,279 69     | Private, gravel.        |
| Ray street.....        | Hyde Park.        | 8 | 54     | 191 33      | 73 75       | 9 59       | 274 67       | Private, clay.          |
| Adams street.....      | Hyde Park.        | 8 | 31     | 156 56      | 40 00       | 3 99       | 200 55       | Private, gravel.        |
| Alpine street.....     | Hyde Park.        | 8 | 48     | 171 03      | 70 63       | 6 39       | 248 05       | Private, gravel.        |
| Church street.....     | Hyde Park.        | 8 | 118    | 194 48      | 107 10      | 4 55       | 306 13       | Private, clay.          |
| Hillside street.....   | Hyde Park.        | 8 | 150    | 408 26      | 152 10      | 6 07       | 566 43       | Private, clay.          |
| Hopewell road.....     | Hyde Park.        | 8 | 8      | 34 33       | 8 00        | 1 00       | 43 93        | Private, gravel.        |
| Deforest street.....   | Hyde Park.        | 8 | 48     | 88 21       | 130 50      | .....      | 218 71       | Private, land.          |
| Violante street.....   | Hyde Park.        | 8 | 440    | 967 10      | 1,211 59    | 97 75      | 2,276 44     | Private, clay and rock. |
| Charles street.....    | Hyde Park.        | 8 | 105    | 395 84      | 119 00      | 6 24       | 521 08       | Public street.          |
| Durant road.....       | Sunnyside street. | 8 | 206    | 456 48      | 255 23      | 56 72      | 768 43       | Private, clay.          |
| Shirley road.....      | Sunnyside street. | 8 | 241    | 554 67      | 267 22      | 68 54      | 920 43       | Private, clay.          |
| Totals.....            |                   | 8 | 29,438 | \$63,724 21 | \$39,170 15 | \$3,442 40 | \$106,336 76 |                         |



# Cost of Extension of Main Pipe.—Continued.

| STREET.            | Location.                                    | District.     | Feet.<br>(Inch.) | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Remarks.                                 |
|--------------------|--|---------------|------------------|--|-------------------|------------------------|----------------|--|
| St. James avenue.  | Berkeley street.                             | City Proper.  | 10               | \$773 40   | \$242 75          | \$15 61                | \$1,031 76     | Public, granite block and concrete base. |
| Marsh street.      | Hallet street.                               | Dorchester.   | 10               | 467 54   | 232 75            | 12 22                  | 712 51         | Private, gravel.                         |
| Goodale road.      | Blue Hill avenue and Wellington Hill street. | Dorchester.   | 10               | 867 01   | 403 99            | 100 63                 | 1,371 63       | Private, clay.                           |
| Whitten street.    | Alther and Adams streets.                    | Dorchester.   | 10               | 1,046 76   | 487 45            | 27 16                  | 1,561 37       | Private, gravel.                         |
| Wilmington avenue. | Southern Artery.                             | Dorchester.   | 10               | 154 61   | 137 10            | .....                  | 291 71         | Public land.                             |
| Southern Artery.   | Wilmington avenue.                           | Dorchester.   | 16               |  |                   |                        |                |  |
| Goodale road.      | Wellington Hill street.                      | Dorchester.   | 10               | 464 52   | 124 23            | 40 00                  | 634 75         | Private, clay.                           |
| Hammond street.    | Stella road.                                 | West Roxbury. | 10               | 389 33   | 111 26            | 18 21                  | 518 80         | Private, ash.                            |
| Parkwood terrace.  | Parkton road.                                | West Roxbury. | 10               | 458 10   | 210 20            | 23 08                  | 691 38         | Private, ash.                            |
| Gaffney street.    | Entrance to Base Ball Park.                  | Brighton.     | 10               | 159 06   | 140 00            | 4 79                   | 303 85         | Private land.                            |
| Edgewater Drive.   | River street.                                | Hyde Park.    | 10               | 302 61   | 103 75            | 20 77                  | 427 13         | Private, clay.                           |
|                    | Totals.                                      | .....         | 10               | \$5,082 94                                       | \$2,193 48        | \$268 47               | \$7,544 89     |  |
| Washington street. | Walham and Wilkes streets.                   | City.         | 12               | 465 65   | 235 87            | 12 22                  | \$713 74       | Public, granite block and concrete base. |
| Warrenton street.  | Tremont and Stuart streets.                  | City.         | 12               | 1,819 32   | 725 00            | 88 02                  | 2,632 34       | Public, clay and granite.                |
| Orient avenue.     | Tower street.                                | East Boston.  | 12               | 617 90   | 258 06            | 11 54                  | 887 50         | Private, clay.                           |
| Hurlcroft avenue.  | Alicia street.                               | Dorchester.   | 12               | 111 97   | 31 00             | 80                     | 143 77         | Private, clay.                           |
| Ormona street.     | Outlook road and Wellington street.          | Dorchester.   | 12               | 1,482 62   | 494 86            | 79 88                  | 2,057 36       | Private, clay.                           |
| Flavia street.     | Chickatawbut and Oak streets.                | Dorchester.   | 12               | 1,551 97   | 587 20            | 29 87                  | 2,169 04       | Private, gravel.                         |
| Welles avenue.     | Dorchester Tunnel.                           | Dorchester.   | 12               | 414 21   | 534 00            | 34 50                  | 982 71         | Public, gravel.                          |



|                          |   |    |        |             |             |            |             |                             |
|--------------------------|---|----|--------|-------------|-------------|------------|-------------|-----------------------------|
| Floyd street.....        | Dorchester.                             | 12 | 156    | 495 91      | 365 30      | 163 89     | 1,025 10    | Public, rock.               |
| Alicia street.....       | Dorchester.                             | 12 | 52     | 253 27      | 101 20      | 4 32       | 358 79      | Private, clay.              |
| Milton avenue.....       | Dorchester.                             | 12 | 37     | 119 86      | 130 43      | .....      | 250 29      | Private, land.              |
| Charlmont street.....    | Dorchester.                             | 12 | 36     | 80 37       | 37 80       | 4 79       | 122 96      | Private, gravel.            |
| Owen street.....         | Dorchester.                             | 12 | 24     | 231 08      | 111 08      | 5 75       | 347 91      | Private, clay.              |
| Fuller street.....       | Dorchester.                             | 12 | 705    | 2,158 13    | 1,029 91    | 83 07      | 3,271 11    | Private, clay.              |
|                          | Washington street and Milton avenue.    |    |        |             |             |            |             |                             |
| Oak avenue.....          | Dorchester.                             | 12 | 305    | 1,067 36    | 374 10      | 43 13      | 1,484 59    | Private, mud.               |
| Flavia street.....       | Dorchester.                             | 12 | 24     |             |             |            |             |                             |
| Milton avenue.....       | Dorchester.                             | 12 | 569    |             |             |            |             |                             |
|                          | Wilmington street and Southern Artery.  |    |        |             |             |            |             |                             |
| Oakridge street.....     | Dorchester.                             | 8  | 4      | 1,668 14    | 935 47      | 79 70      | 2,683 31    | Private, clay.              |
| Codman street.....       | Dorchester.                             | 8  | 21     |             |             |            |             |                             |
| Southern Artery.....     | Dorchester.                             | 12 | 2,787  | 7,308 29    | 3,490 54    | 132 10     | 10,930 93   | Public, under construction. |
|                          | Between Dorchester and Granite avenues. |    |        |             |             |            |             |                             |
| Southern Artery.....     | Dorchester.                             | 12 | 119    | 415 08      | 125 25      | 22 68      | 563 01      | Public, under construction. |
| Alicia street.....       | Dorchester.                             | 12 | 927    | 2,825 66    | 1,009 28    | 74 28      | 3,909 22    | Private, clay.              |
| Russett road.....        | West Roxbury.                           | 12 | 210    | 652 13      | 361 24      | 42 49      | 1,055 86    | Private, clay.              |
| Forest Hills street..... | West Roxbury.                           | 12 | 754    |             |             |            |             |                             |
| Rossmore road.....       | West Roxbury.                           | 12 | 15     | 2,646 02    | 1,193 50    | 36 42      | 3,875 94    | Private, clay.              |
| Williams street.....     | West Roxbury.                           | 12 | 11     |             |             |            |             |                             |
| Stratford street.....    | West Roxbury.                           | 12 | 696    | 1,903 47    | 713 00      | 41 54      | 2,658 01    | Private, clay.              |
| Sanborn avenue.....      | West Roxbury.                           | 12 | 753    | 2,157 53    | 789 84      | 37 38      | 2,984 75    | Private, clay.              |
| Orange street.....       | West Roxbury.                           | 12 | 311    | 974 61      | 351 33      | 109 98     | 1,435 92    | Private, clay.              |
|                          | Beech street and West Roxbury Parkway.  |    |        |             |             |            |             |                             |
|                          | Carried forward.....                    | 12 | 10,467 | \$31,420 55 | \$13,895 26 | \$1,138 35 | \$46,544 16 |                             |

# Cost of Extension of Main Pipe.—Concluded.

| STREET.               | Location.                               | District.     | Size<br>(Inch.) | Feet.  | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Remarks.                |
|-----------------------|---|---------------|-----------------|--------|--|-------------------|------------------------|----------------|-------------------------|
|                       | <i>Brought forward</i> .....            |               | 12              | 10,467 | \$31,420 55                                      | \$13,985 26       | \$1,138 35             | \$46,514 16    |                         |
| Woodward road.....    | West. Border road and Stratford street. | West Roxbury. | 12              | 294    | 792 32   | 294 03            | 25 56                  | 1,111 91       | Private, clay.          |
| Maple street.....     | Weld street.....                        | West Roxbury. | 12              | 101    | 418 64   | 110 09            | 22 37                  | 551 10         | Private, clay.          |
| Addington street..... | Lagrange and Vermont streets.....       | West Roxbury. | 12              | 429    | 1,263 59   | 577 50            | 21 57                  | 1,862 75       | Private, gravel.        |
| Selwyn street.....    | Knoll street.....                       | West Roxbury. | 12              | 34     | 188 26   | 63 00             | 6 39                   | 257 65         | Public, clay.           |
| Florence street.....  | Wyvern street.....                      | West Roxbury. | 12              | 92     | 323 54   | 596 60            | 50 84                  | 970 98         | Private, rock.          |
| Wyvern street.....    | At Florence street.....                 | West Roxbury. | 12              | 30     |  |                   |                        |                |                         |
| Arborview road.....   | Malcolm street.....                     | West Roxbury. | 12              | 96     | 362 15   | 157 72            | 19 17                  | 539 04         | Private, clay.          |
| Rossmore road.....    | Washington and Forest Hills streets.    | West Roxbury. | 12              | 313    | 998 66   | 488 25            | 22 00                  | 1,508 91       | Public, sandy.          |
| Rossmore road.....    | From Washington street.....             | West Roxbury. | 12              | 396    |  |                   |                        |                |                         |
| Seminary road.....    | Commonwealth avenue and Gillard road.   | Brighton.     | 12              | 627    | 1,956 79   | 978 63            | 55 00                  | 2,990 42       | Private, clay.          |
| Corey road.....       | Belvista road.....                      | Brighton.     | 12              | 136    | 359 93   | 248 68            | 25 56                  | 634 17         | Private, clay.          |
| Alcorn street.....    | Commonwealth avenue and Ashford street. | Brighton.     | 12              | 703    | 1,760 75   | 503 80            | 20 13                  | 2,284 68       | Private, clay.          |
| Lake Shore road.....  | From Lake street.....                   | Brighton.     | 12              | 848    | 2,270 37   | 875 52            | 79 88                  | 3,225 77       | Private, ash filled.    |
| Beecherof street..... | Faneuil street.....                     | Brighton.     | 12              | 490    | 1,426 02   | 609 36            | 95 60                  | 2,130 98       | Private, gravel.        |
| Church street.....    | Hillside and Sunnyside streets.....     | Hyde Park.    | 12              | 506    | 1,456 99   | 692 20            | 77 88                  | 2,227 07       | Private, clay.          |
| Roxana street.....    | Sunnyside and Hyde Park streets.....    | Hyde Park.    | 12              | 225    | 859 61   | 348 00            | 38 34                  | 1,245 95       | Private, clay and rock. |
| Behnel road.....      | Illoewell and Friendship streets.....   | Hyde Park.    | 12              | 338    | 969 99   | 342 00            | 43 13                  | 1,355 12       | Private, gravel.        |

|                       |  |               |       |        |              |             |            |              |                                       |
|-----------------------|--|---------------|-------|--------|--------------|-------------|------------|--------------|---------------------------------------|
| Belnel road.....      | Osceola and Hopewell streets.....                  | Hyde Park.    | 12    | 697    | 2,045 67     | 955 01      | 139 61     | 3,140 29     | Private, gravel.                      |
| Richmond road.....    | Oakland street.....                                | Hyde Park.    | 12    | 220    | 733 04       | 533 94      | 97 12      | 1,364 10     | Private, rock and clay.               |
|                       | Totals.....  |               | 12    | 17,042 | \$49,006 87  | \$22,359 68 | \$1,978 50 | \$73,945 05  |                                       |
| Southern Artery.....  | Oakridge street.....                               | Dorchester.   | 16    | 103    | \$885 58     | \$309 48    | .....      | \$1,195 06   | Private, land.                        |
| Southern Artery.....  | Washington and Oakridge streets..                  | Dorchester.   | 16    | 439    | 2,238 20     | 652 60      | 38 50      | 2,929 30     | Public, clay.                         |
| Southern Artery.....  | West from Oakridge street.....                     | Dorchester.   | 16    | 72     | 257 16       | 180 00      | 7 91       | 445 07       | Public, under construction.           |
| East Border road..... | New Park avenue.....                               | West Roxbury. | 16    | 23     | 78 98        | 36 00       | 8 62       | 123 60       | Public land, Metropolitan Commission. |
| West Roxbury Parkway. | Across Centre street.....                          | West Roxbury. | 16    | 348    | .....        | .....       | .....      | .....        | Public, clay.                         |
| Centre street.....    | West Roxbury Parkway.....                          | West Roxbury. | 16    | 20     | 2,496 62     | 916 69      | 36 42      | 3,449 73     |                                       |
| West Border road..... | Stratford and Belton streets.....                  | West Roxbury. | 16    | 1,197  | 5,590 61     | 1,967 63    | 239 67     | 7,797 91     | Public land, Metropolitan Commission. |
| West Border road..... | Pelton street.....                                 | West Roxbury. | 16    | 447    | .....        | .....       | .....      | .....        | Public land, clay.                    |
| West Roxbury Parkway. | East and West Border roads.....                    | West Roxbury. | 16    | 191    | 3,053 55     | 1,115 74    | 121 00     | 4,290 29     |                                       |
|                       | Totals.....  |               | 16    | 2,840  | \$14,600 70  | \$5,178 14  | \$452 12   | \$20,230 96  |                                       |
| Adams street.....     | Southern Artery.....                               | Dorchester.   | 20    | 184    | \$987 06     | \$377 20    | \$20 37    | \$1,384 63   | Public, under construction.           |
|                       | Totals.....  |               | ..... | 184    | \$987 06     | \$377 20    | \$20 37    | \$1,384 63   |                                       |
| Southern Artery.....  | Dorchesteravenue and Adams street.                 | Dorchester.   | 24    | 2,926  | 20,601 21    | 6,971 10    | 231 14     | 27,803 45    | Public, under construction.           |
| Pond street.....      | Arborway.....                                      | West Roxbury. | 24    | 73     | 503 34       | .....       | .....      | 503 34       | Public, under construction.           |
| Pond street.....      | At Prince street.....                              | West Roxbury. | 24    | 60     | .....        | .....       | .....      | .....        |                                       |
| Prince street.....    | At Pond street.....                                | West Roxbury. | 24    | 12     | 1,720 81     | 891 63      | 95 85      | 2,708 29     | Public gravel.                        |
|                       | Totals.....  |               | 24    | 3,071  | \$22,825 36  | \$7,862 73  | \$326 99   | \$31,015 08  |                                       |
| Columbus avenue.....  | Boylston and Arlington streets.....                |               | ..... | 1,098  | .....        | .....       | .....      | .....        |                                       |
| Charles street.....   | Center entrance, Public Carlen and Boylston street | City.         | 48    | 520    | \$170,365 02 | \$76,492 46 | \$5,497 99 | \$252,355 47 | Public, street.                       |
| Arlington street..... | Columbus and Cortez street.....                    |               | ..... | 657    | .....        | .....       | .....      | .....        |                                       |
|                       | Totals.....  |               | 48    | 2,275  | \$170,365 02 | \$76,492 46 | \$5,497 99 | \$252,355 47 |                                       |

# Cost of Replacement of Main Pipe.

| STREET.                | Location.   | District.     | Size.<br>(Inch.) | Feet. | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Original<br>Size<br>(Inch.) | Remarks.                                 |
|------------------------|---|---------------|------------------|-------|--|-------------------|------------------------|----------------|-----------------------------|--|
| Wesley place.....      | From Hanover street.....                          | City Proper.  | 2                | 126   | \$248 80   | \$144 90          | \$16 29                | \$409 99       | 1½                          | Public, granite block and concrete base. |
|                        | Totals.....                                       |               |                  |       |  |                   |                        |                |                             |  |
| Harold street.....     | At Hollander street.....                          | Roxbury.      | 8                | 12    | 229 14   | 58 36             | .....                  | 287 50         | 8                           | Public, macadam.                         |
| Hollander street.....  | At Harold street.....                             | Roxbury.      | 8                | 8     |  |                   |                        |                | 8                           | Public, macadam.                         |
| Glide street.....      | Between Oak avenue and Minot street.....          | Dorchester.   | 8                | 302   | 631 51   | 375 70            | 18 00                  | 1,025 21       | 6                           | Public, gravel.                          |
| Blakeville street..... | Between Bowdoin and Olney streets.                | Dorchester.   | 8                | 83    | 97 17  | 83 00             | 4 79                   | 184 96         | 6                           | Public, macadam.                         |
| Granville street.....  | At Southern Artery.....                           | Dorchester.   | 8                | 19    | 83 43  | 19 50             | 3 20                   | 106 13         | 6                           | Public, under construction.              |
| Millwood street.....   | At Southern Artery.....                           | Dorchester.   | 8                | 11    | 72 49  | 16 50             | 3 04                   | 92 03          | 6                           | Public, under construction.              |
| Frederika street.....  | From Southern Artery.....                         | Dorchester.   | 8                | 13    | 68 05  | 19 50             | 3 04                   | 90 59          | 6                           | Public, under construction.              |
| Magdala street.....    | From Southern Artery.....                         | Dorchester.   | 8                | 28    | 141 85   | 42 00             | 10 63                  | 194 48         | 8                           | Public, under construction.              |
| Becket street.....     | At Southern Artery.....                           | Dorchester.   | 8                | 18    | 36 81  | 27 00             | 4 56                   | 68 37          | 8                           | Public, under construction.              |
| Glen road.....         | Between east and west lines of Signourney street. | West Roxbury. | 8                | 5     | 123 76   | 43 68             | 9 11                   | 176 55         | 8                           | Public, macadam.                         |
| Ilardwick street.....  | At Durland street.....                            | Brighton.     | 8                | 63    | 82 32  | 68 13             | 3 20                   | 153 65         | 6                           | Public, macadam.                         |
| Reddy avenue.....      | At River street.....                              | Hyde Park.    | 8                | 5     | 24 60  | 6 75              | 3 20                   | 34 55          | 6                           | Private, gravel.                         |
| Rosa street.....       | At River street.....                              | Hyde Park.    | 8                | 6     | 33 71  | 8 10              | 3 20                   | 45 01          | 6                           | Public, gravel.                          |
| LeFevre street.....    | From River street.....                            | Hyde Park.    | 8                | 22    | 68 61  | 36 25             | 3 20                   | 108 04         | 4                           | Private, gravel.                         |
| Child street.....      | At Cleveland street.....                          | Hyde Park.    | 8                | 20    | 103 26   | 22 00             | 6 24                   | 131 50         | 6                           | Public, gravel and sand.                 |
| Charles street.....    | At Roxam street.....                              | Hyde Park.    | 8                | 37    | 136 13   | 48 40             | 38 34                  | 222 87         | 6                           | Public, clay.                            |

|                         |   |               |       |       |             |            |          |             |    |  |
|-------------------------|---|---------------|-------|-------|-------------|------------|----------|-------------|----|--|
| Arlington street.....   | Between Providence street and Hyde Park avenue..... | Hyde Park.    | 8     | 419   | 884 61      | 749 38     | 61 46    | 1,695 45    | 4  | Public, gravel.                          |
|                         | Totals.....   | .....         | 8     | 1,071 | \$2,817 45  | \$1,624 25 | \$175 21 | \$4,616 91  |    |  |
| Oakridge street.....    | At Southern Artery.....                             | Dorchester.   | 10    | 6     | 127 74      | 66 66      | .....    | 194 40      | 10 | Public, under construction.              |
| Verdun street.....      | From Southern Artery.....                           | Dorchester.   | 10    | 16    | 44 06       | 24 00      | 4 79     | 72 85       | 10 | Public, under construction.              |
| Carruth street.....     | At Southern Artery.....                             | Dorchester.   | 10    | 40    | 275 52      | 50 00      | 608      | 331 60      | 10 | Public, under construction.              |
|                         | Total.....  | .....         | 10    | 62    | \$447 32    | \$140 66   | \$10 87  | \$598 85    |    |  |
| West Newton street..... | Over railroad bridge.....                           | City Proper.  | 12    | 82    | \$444 51    | \$258 89   | .....    | \$703 40    | 12 | Public.                                  |
| Mason street.....       | Between Avery and West streets...                   | City Proper.  | 12    | 257   | 1,650 09    | 458 35     | 14 33    | 2,122 77    | 6  | Public, asphalt.                         |
| Grenville place.....    | From Columbus avenue.....                           | City Proper.  | 12    | 140   | 435 41      | 221 23     | 14 30    | 670 94      | 6  | Public, granite block and granite base.  |
| Park square.....        | Between Boylston and Eliot streets.                 | City Proper.  | 12    | 190   | 536 21      | 950 00     | 72 00    | 1,558 21    | 12 | Public, granite block and concrete base. |
| Warrenton street.....   | Between Tremont and Stuart streets.                 | City Proper.  | 12    | 508   | 1,332 25    | 1,053 09   | 91 05    | 2,476 39    | 6  | Public, clay, gravel and asphalt.        |
| D street.....           | Between Bell Court and West Second street.          | South Boston. | 12    | 2,269 | 9,510 12    | 4,365 07   | 384 00   | 14,259 19   | 12 | Public, clay.                            |
| Bolton street.....      | Across D street.....                                | South Boston. | 8     | 53    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Third street.....       | Across D street.....                                | South Boston. | 10    | 53    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Athens street.....      | Across D street.....                                | South Boston. | 8     | 55    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Silver street.....      | Across D street.....                                | South Boston. | 8     | 51    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Gold street.....        | Across D street.....                                | South Boston. | 8     | 54    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Fifth street.....       | Across D street.....                                | South Boston. | 10    | 50    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Tudor street.....       | Across D street.....                                | South Boston. | 8     | 51    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Seventh street.....     | Across D street.....                                | South Boston. | 8     | 34    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
| Eighth street.....      | Across D street.....                                | South Boston. | 8     | 54    | .....       | .....      | .....    | .....       | 6  | Public, clay.                            |
|                         | Carried forward.....                                | .....         | ..... | 3,901 | \$13,908 59 | \$7,306 63 | \$575 68 | \$21,790 90 |    |  |

# Cost of Replacement of Main Pipe.— Concluded.

| STREET.              | Location.  | District.     | Size.<br>(Inch.) | Feet. | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Original<br>Size<br>(Inch.) | Remarks.                          |
|----------------------|--|---------------|------------------|-------|--|-------------------|------------------------|----------------|-----------------------------|-----------------------------------|
| .....                | <i>Brought forward.</i>                                    | .....         | .....            | 3,901 | \$13,908 59                                      | \$7,306 63        | \$575 68               | \$21,790 90    | .....                       | .....                             |
| Southern Artery..... | South side, between Dorchester<br>avenue and Adams street. | Dorchester.   | 12               | 502   | \$1,996 00                                       | \$1,213 97        | \$79 42                | \$3,289 39     | 12                          | Public, under construction.       |
| Hubbard street.....  | From Savin Hill avenue.....                                | Dorchester.   | 12               | 171   | 686 27   | 627 24            | 51 59                  | 1,365 10       | 12                          | Private, rock.                    |
| Winston road.....    | From Willowood street.....                                 | Dorchester.   | 12               | 178   | 673 20   | 393 20            | 46 75                  | 1,113 15       | 6                           | Public, under construction.       |
| Morton street.....   | Between Evans and Fairmount<br>streets.                    | Dorchester.   | 12               | 344   | 448 24   | 1,065 33          | 118 60                 | 1,632 17       | 12                          | Public, rock, under construction. |
| Southern Artery..... | Between Adams street and Granite<br>avenue.                | Dorchester.   | 12               | 802   | 1,993 12   | 1,186 29          | 66 21                  | 3,245 62       | 12                          | Public, under construction.       |
| Morton street.....   | Between Fuller and Fairmount<br>streets.                   | Dorchester.   | 1½               | 168   | 116 30   | 455 69            | .....                  | 571 99         | 12                          | Public, under construction.       |
| Adams street.....    | At No. 1109.....   | Dorchester.   | 12               | 16    | 206 27   | 94 41             | 16 50                  | 317 18         | 12                          | Public, clay.                     |
| Granite avenue.....  | At Adams street and Southern<br>Artery.                    | Dorchester.   | 12               | 209   | 758 48   | 303 38            | 49 52                  | 1,111 38       | 12                          | Public, under construction.       |
| Walworth street..... | At Auburn street.....                                      | West Roxbury. | 12               | 9     | 92 19  | 60 00             | 4 20                   | 156 39         | 12                          | Private, clay.                    |
| Adamson street.....  | Between Everett and Franklin<br>streets.                   | Brighton.     | 12               | 1,166 | 3,357 12   | 2,640 53          | 69 00                  | 6,066 65       | 12                          | Public, sand and gravel.          |
| Belnel road.....     | At Hopewell road.....                                      | Hyde Park.    | 12               | 22    | 22 39  | 52 00             | 12 14                  | 86 53          | 12                          | Private, gravel.                  |

|                          |  |              |    |        |             |             |            |             |    |                             |
|--------------------------|--|--------------|----|--------|-------------|-------------|------------|-------------|----|-----------------------------|
| Metropolitan avenue..... | Between River and Westminster streets.         | Hyde Park    | 12 | 1,225  | 3,750 98    | 3,013 68    | 140 50     | 6,905 16    | 6  | Public, rock and gravel.    |
| Southern Artery.....     | Between Adams street and Granite avenue.       | Dorchester.  | 12 | 802    | 1,993 12    | 1,186 29    | 66 21      | 3,245 62    | 12 | Public, under construction. |
| Glenwood avenue.....     | Between Beaver and Child streets.              | Hyde Park.   | 12 | 230    | 744 86      | 322 55      | 49 84      | 1,117 25    | 6  | Public, clay.               |
| Cleveland street.....    | Between Child and Beaver streets.              | Hyde Park.   | 12 | 330    | 1,195 75    | 527 55      | 65 57      | 1,788 87    | 6  | Public, gravel.             |
| Roxana street.....       | Between Sunnyside street and Hyde Park avenue. | Hyde Park.   | 12 | 182    | 453 48      | 229 49      | 30 35      | 713 32      | 6  | Public, clay.               |
| Sunnyside street.....    | Between Franklin and Church streets.           | Hyde Park.   | 12 | 938    | 2,578 82    | 1,341 10    | 46 17      | 3,966 09    | 4  | Public, clay.               |
| Thompson street.....     | Between Glenwood avenue and Franklin street.   | Hyde Park.   | 12 | 520    | 1,874 37    | 813 13      | 100 26     | 2,796 76    | 4  | Public, clay.               |
| Beaver street.....       | Between Cleveland street and Glenwood avenue.  | Hyde Park.   | 12 | 686    | 2,470 24    | 983 85      | 112 46     | 3,266 55    | 6  | Public, gravel and sand.    |
| Franklin street.....     | Between Thompson street and Sunnyside street.  | Hyde Park.   | 12 | 361    | 1,197 25    | 496 62      | 52 10      | 1,746 27    | 4  | Public, clay.               |
|                          | Totals.....                                    |              | 12 | 12,762 | \$40,217 04 | \$24,312 93 | \$1,762 37 | \$66,292 34 |    |                             |
| Union street.....        | Between Hanover street and Dock square.        | City Proper. | 24 | 750    | \$6,442 88  | \$2,124 10  | \$465 92   | \$9,032 90  | 24 | Public, under construction. |



# Cost of Relocation of Main Pipe.

| STREET.                              | Location.   | District.     | Size.<br>(Inch.) | Feet.        | Cost of<br>Depart-<br>ment<br>Materials,<br>etc. | Cost of<br>Labor. | Cost of<br>Inspection. | Total<br>Cost. | Original<br>Size<br>(Inch.) | Remarks.                    |
|--------------------------------------|---|---------------|------------------|--------------|--|-------------------|------------------------|----------------|-----------------------------|-----------------------------|
| Codman street.....                   | Between Nevada street and Milton<br>avenue.                 | Dorchester.   | 8                | 178          | \$44 50  | \$107 33          | \$40 21                | \$252 04       | 8                           | Public, clay.               |
| Steadman street.....                 | Between Williams street and Brook<br>road.                  | West Roxbury. | 8                | 220          | 437 22   | 318 13            | 9 11                   | 764 46         | 8                           | Private, sand.              |
| Colonial road.....                   | At Euston road.....   | Brighton.     | 8                | 21           | 42 36  | 67 25             | .....                  | 109 61         | 8                           | Public, under construction. |
| Walter street.....                   | At River street.....  | Hyde Park.    | 8                | 12           | 38 41  | 16 20             | 3 99                   | 58 60          | 8                           | Private, gravel.            |
| Rockdale street.....                 | Between Randolph road and<br>Violante street.               | Hyde Park.    | 8                | 330          | 117 75   | 647 69            | 36 42                  | 801 86         | 8                           | Public, rock and clay.      |
|                                      | Totals.....   | .....         | 8                | 761          | \$680 24   | \$1,216 60        | \$89 73                | \$1,986 57     |                             |                             |
| Mather street.....                   | Between Allston and Nixon street<br>over Dorchester Tunnel. | Dorchester.   | 10               | 76           | \$285 53   | \$114 75          | .....                  | \$400 28       | 6                           | Public, gravel.             |
| Melville avenue.....                 | Between Wellesley park and Waldeck<br>street.               | Dorchester.   | 10               | 65           | 267 28   | 83 75             | .....                  | 351 03         | 8                           | Public, gravel.             |
|                                      | Totals.....   | .....         | 10               | 141          | \$552 81   | \$198 50          | .....                  | \$751 31       |                             |                             |
| Dorchester avenue at<br>power house. | Opposite Mt. Washington avenue...                           | City Proper.  | { 12<br>6 }      | { 49<br>35 } | \$212 70   | \$100 00          | \$6 39                 | \$319 09       | { 12<br>6 }                 | Public, granite base.       |
| Dock square.....                     | Between Exchange street and Mer-<br>chants row.             | City Proper.  | 12               | 398          | 1,568 37   | 1,013 07          | 114 84                 | 2,696 28       | 12                          | Public, asphalt.            |
| Corn court.....                      | In Dock square.....   | City Proper.  | 6                | 34           |  |                   |                        |                | 4                           | Public, asphalt.            |

|                      |  |               |    |       |            |            |          |             |    |                             |
|----------------------|--|---------------|----|-------|------------|------------|----------|-------------|----|-----------------------------|
| Southern Artery..... | Between Granite and Lenoxdale<br>avenues.                                  | Dorchester.   | 12 | 173   | 788 98     | 175 48     | 84 51    | 1,018 97    | 8  | Public, under construction. |
| Hilldale street..... | From Adams street.....   | Dorchester.   | 12 | 94    | 113 78     | 110 07     | .....    | 223 85      | 12 | Public, macadam.            |
| Southern Artery..... | Between Washington street and<br>Dorchester avenue (old Codman<br>street.) | Dorchester.   | 12 | 285   | 359 27     | 692 29     | 75 95    | 1,127 51    | 12 | Public, under construction. |
| Codman street.....   | Near Washington street.....  | Dorchester.   | 12 | 13    | 117 37     | 87 46      | .....    | 204 83      | 12 | Public, under construction. |
| Alicia road.....     | From Southern Artery.....  | Dorchester.   | 12 | 200   | 17 85      | 331 77     | 12 78    | 362 40      | 12 | Private, clay.              |
| Centre street.....   | Between Samoset and Melbourne<br>streets.                                  | Dorchester.   | 12 | 86    | 365 24     | 122 25     | .....    | 487 49      | 12 | Public, gravel.             |
| Southern Artery..... | Between Grayson street and Cushing<br>Hill road.                           | Dorchester.   | 12 | 729   | 2,371 41   | 1,057 41   | 65 84    | 3,494 66    | 8  | Public, gravel.             |
| Park street.....     | At Waldeck street.....   | Dorchester.   | 12 | 109   | 437 23     | 140 75     | .....    | 577 98      | 12 | Public, gravel.             |
| Pond street.....     | Between Billings lane and Pond<br>circle.                                  | West Roxbury. | 12 | 160   | 401 32     | 50 63      | .....    | 451 95      | 12 | Public, macadam.            |
| Fairmont avenue..... | Over railroad bridge.....  | Hyde Park.    | 12 | 191   | 183 89     | 353 38     | .....    | 537 27      | 12 | Public, macadam.            |
| River street.....    | Between Whitney park and Mather<br>street.                                 | Hyde Park.    | 12 | 518   | 1,624 88   | 1,622 61   | 93 85    | 3,341 34    | 12 | Public, gravel.             |
|                      | Totals.....  |               | 12 | 3,074 | \$8,562 29 | \$5,857 17 | \$454 16 | \$14,873 62 |    |                             |
| Southern Artery..... | Between Washington street and<br>Dorchester avenue.                        | Dorchester.   | 20 | 620   | \$34 69    | \$1,191 04 | \$84 18  | \$1,309 91  | 20 | Public, under construction. |

## WATERWORKS STATISTICS.—CITY OF BOSTON.

FOR THE FISCAL YEAR ENDING DECEMBER 31, 1927.

## DISTRIBUTION.

*Mains.*

Kind of pipe: cast iron, wrought iron.

Size: 2-inch to 48-inch.

Extended, miles, 10.91.

Size, enlarged, miles, 1.84.

Total miles now in use, 935.23.

Public hydrants added, 128.

Public hydrants now in use, 10,601.

Stops gates added, 240.

Stop gates now in use, 14,336.

Stop gates smaller than 4-inch, 33.

Number of blow-offs, 728

Range of pressure on mains, 30 to 90 pounds.

*Service.*Kind of pipe and size, lead and lead lined:  $\frac{1}{2}$ -inch to 2-inch cast iron.2-inch to 12-inch, wrought iron and cement lined:  $\frac{3}{4}$ -inch to 2-inch.

Extended feet, 45,911.

Total miles now in use, 628.51.

Service taps added, 1,920.

Total service taps now in use, 117,923.

## High Pressure Fire System Extension, 1927.

|   |                 |
|---|-----------------|
| Appropriations to December 31, 1927 . . . . .     | \$2,128,000 00  |
| Total expenditures to December 31, 1927 . . . . . | 2,127,618 00    |
| Balance unexpended December 31, 1927 . . . . .    | <u>\$382 00</u> |

## APPENDIX G.

REPORT OF THE BOSTON AND CAMBRIDGE  
BRIDGE COMMISSION.

*To the Honorable the Mayor.*

SIR — AS Commissioner for the City of Boston, I respectfully submit herewith the annual report of the Boston and Cambridge Bridge Commission for the year ending December 31, 1927.

The commission is composed of two members, one appointed by the Mayor of the City of Boston and the other by the Mayor of the city of Cambridge, under provisions of chapter 467, Acts of 1898.

The commission has charge of the maintenance of the following-named bridges between Boston and Cambridge; Anderson, Longfellow Prison Point, River Street and Western Avenue to Cambridge. River Street Bridge and Western Avenue Bridge were returned to the control of the commission, after being rebuilt by the Metropolitan District Commission, on December 1, 1926.

As there is no separate appropriation made for the City of Boston's portion of the expenses of this commission, the same is taken from the appropriation for the Bridge and Ferry Division, Bridge Service. The amount expended during the fiscal year ending December 31, 1927, was \$16,496.35.

## ANDERSON BRIDGE (OVER CHARLES RIVER.)

The paving on the existing bridge, which is of wood block on concrete base, has had a considerable amount of repairs made to it. It is only a question of time when this paving will have to be relaid.

## LONGFELLOW BRIDGE (OVER CHARLES RIVER.)

By chapter 33 of the Acts of 1927 the name of Cambridge Bridge was changed to Longfellow Bridge.

## PRISON POINT BRIDGE.

The channelway under this bridge was blocked by the improvements being made by the Boston & Maine Railroad and no more boats will pass through the channelway. It is therefore advisable that the bridge be strengthened, a new flooring placed and a new type of surfacing laid so that the constant repairs and patching of this structure may be eliminated.

## RIVER STREET BRIDGE.

This bridge, a three-arched reinforced concrete bridge, with concrete paving, is now in the hands of this commission. There are no car tracks on this structure.

## WESTERN AVENUE BRIDGE (TO CAMBRIDGE.)

This bridge, a three-arched reinforced concrete bridge, with bituminous macadam paving, is now in the custody of this commission. This bridge has two street car tracks on it.

Respectfully submitted,

JAMES H. SULLIVAN,  
*Commissioner for the City of Boston.*

**Boston and Cambridge Bridges, Expenditures for the Year Ending December 31, 1927.**  
*Being the Portion Paid by the City of Boston, Which is One Half of the Total Expenditure.*

|                                       | Administration. | Anderson Bridge.  | Cambridge Bridge. | Prison Point Bridge. | Cambridge Street-River Street Bridge. | Western Avenue Bridge. | Totals.            |
|---------------------------------------|-----------------|-------------------|-------------------|----------------------|---------------------------------------|------------------------|--------------------|
| Salaries.....                         | \$250 00        | \$850 00          | \$3,094 67        | \$2,854 88           | .....                                 | .....                  | \$7,049 55         |
| Inspection.....                       | .....           | 110 00            | 186 00            | 234 00               | \$34 00                               | \$42 00                | 606 00             |
| Repairs.....                          | .....           | 655 60            | 2,674 11          | 2,134 54             | 21 21                                 | .....                  | 5,485 46           |
| Lumber.....                           | .....           | .....             | .....             | 750 07               | .....                                 | .....                  | 750 07             |
| Light.....                            | .....           | 298 75            | 1,513 56          | 2 79                 | 255 00                                | 274 41                 | 2,344 51           |
| Fuel.....                             | .....           | .....             | .....             | 38 22                | .....                                 | .....                  | 38 22              |
| Supplies.....                         | .....           | .....             | 89 22             | 24 00                | .....                                 | .....                  | 113 22             |
| Printing and stationery.....          | 14 07           | .....             | .....             | .....                | .....                                 | .....                  | 14 07              |
| Telephone and traveling expenses..... | 95 25           | .....             | .....             | .....                | .....                                 | .....                  | 95 25              |
| <b>Totals.....</b>                    | <b>\$359 32</b> | <b>\$1,914 35</b> | <b>\$7,557 56</b> | <b>\$6,038 50</b>    | <b>\$310 21</b>                       | <b>\$316 41</b>        | <b>\$16,496 35</b> |







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